ARL STATISTICS

1980-81

A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND THIRTEEN MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES

Compiled by
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and
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ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
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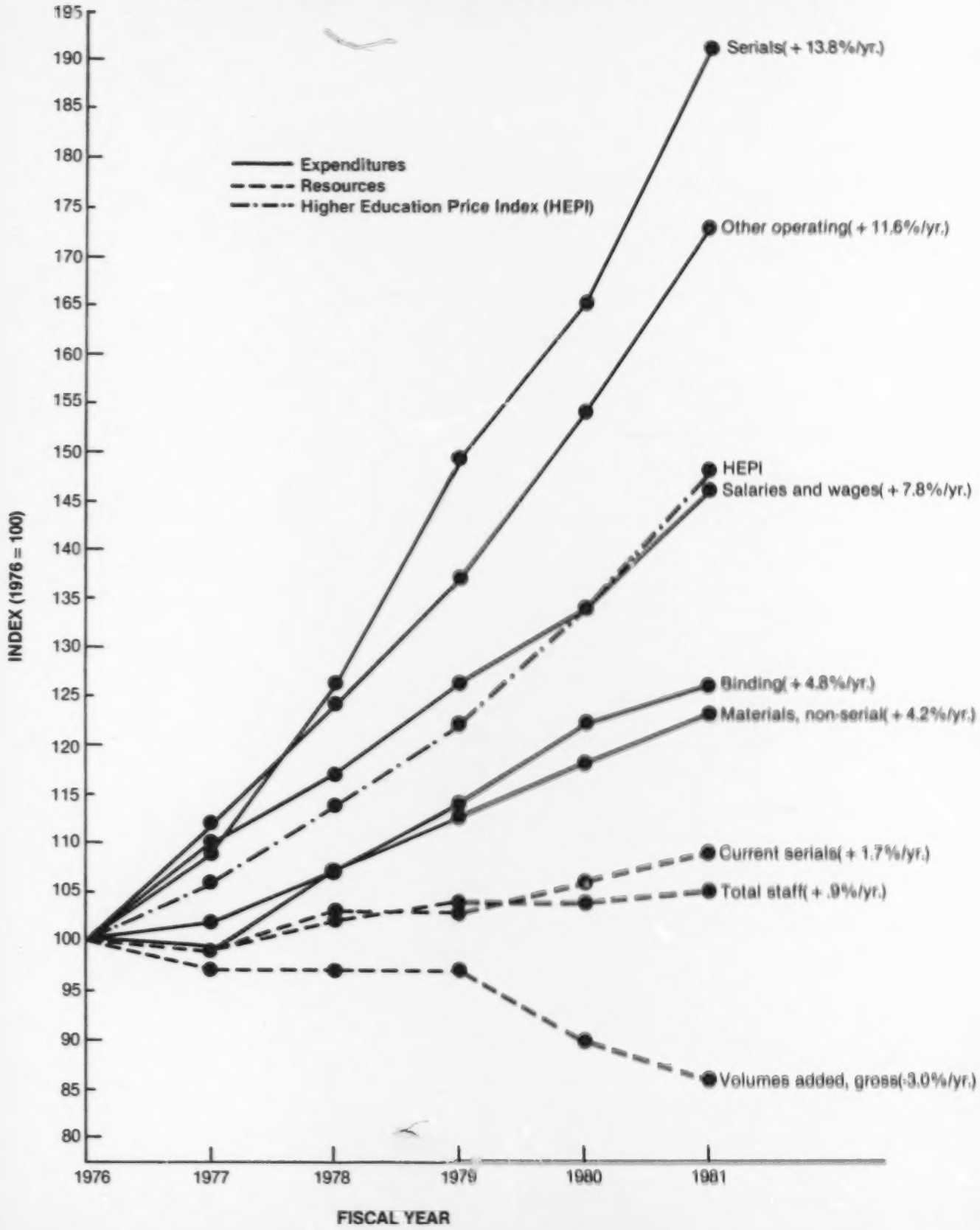
AGGREGATE EXPENDITURES AND RESOURCES OF 90 ARL UNIVERSITY LIBRARIES, FISCAL YEARS 1976-1981



INTRODUCTION

The 1980-81 ARL Statistics presents data compiled from the 113 research libraries that were members of the Association during the 1980-81 academic year. Two libraries joined ARL in 1981: the libraries of the University of California, Irvine and the University of Manitoba. Reports from these two libraries are included in the Statistics for the first time this year.

The figures reported by ARL libraries for the fiscal year 1980-81 again display trends that have been emerging since the early 1970's: increasing expenditures, with a greater proportion of expenditures allocated to serials; decreasing numbers of volumes added each year; and little or no increase in overall staff size. To examine these trends in more detail, an analysis was performed on data from 90 ARL university libraries for the years 1975-76 through 1980-81.[1] The graph on the preceding page summarizes the total expenditures of these 90 libraries since 1975-76, as well as the level of resources maintained during these years, as measured by library materials and staff.[2]

The aggregate figures, converted to index numbers for comparison, show the combined effort of 90 major research libraries. The largest increases in the expenditures of these libraries have been for serials, averaging 13.8% per year, and for operations (exclusive of personnel, library materials, and building maintenance) averaging 11.6% per year. Outlays for library materials other than serials have risen only 4.2% per year, falling well below the rate of inflation as measured by the Higher Education Price Index.[3] As might be expected, the relative reduction in spending for monographs is accompanied by a decline, averaging -3% per year, in the gross number of volumes added to these 90 collections annually. And, despite escalating expenditures for serials, the total number of serials titles acquired each year has risen very little. (In part, the slight increase in numbers of serials since 1978-79 may be a reflection of the clarified definition of "current serials" that appeared in the 1979-80 Statistics questionnaire making explicit the inclusion of government document serials in ARL reports.)

The aggregate figures displayed on the graph result, in part, from decisions made in each of the 90 university libraries regarding the allocation of limited resources. To gain more insight into possible trends in individual operations, ratios between selected variables were calculated for each library and the median ratios examined for each year since 1975-76. Results are shown in the following table.

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[1] Data analysis performed by Kendon Stubbs. Libraries included are all those that have been ARL members since 1975-76 and which lack no more than one data value for the years covered. Figures used in this analysis include all reported errata and Canadian expenditures as converted to U.S. dollars.

[2] Graph based on a design by Richard Talbot.

[3] For a description of the Higher Education Price Index see Halstead, D. Kent, Higher Education Prices and Price Indexes (Washington, D.C.: U.S. Office of Education, 1975) and Research Associates of Washington, Higher Education Prices and Price Indexes: 1981 Update (Washington, D.C.: Research Associates, 1981).

MEDIAN PERCENTAGES OF SELECTED VARIABLES FOR 90 ARL UNIVERSITY LIBRARIES						
	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
1. Salary and Wage Expenditures as percent of Total Expenditures	58	58	57	56	56	55
2. Other Operating Expenditures as percent of Total Expenditures	8	8	9	9	9	10
3. Materials Expenditures as percent of Total Expenditures	32	30	31	32	33	32
4. Serials Expenditures as percent of Materials Expenditures	46	48	53	55	55	58
5. Professional Staff as percent of Total Staff	27	26	26	25	25	25
6. Nonprofessional Staff as percent of Total Staff	53	53	53	52	53	53
7. Student Assistants as percent of Total Staff	20	20	21	21	21	22

The most dramatic change since 1975-76 is the increasing percentage of materials expenditures allocated to serials — a steady rise from 46% in 1975-76 to 58% in 1980-81. At the same time, the outlays for all types of library materials have remained at 32% of total funds expended. Operating expenditures, which include automation costs in some of the libraries, have been receiving a slowly increasing share of the total, while the percentage spent on salaries and wages appears to be declining slightly. This latter trend may be linked to the slowly decreasing portion of total FTE positions occupied by professionals and the concomitant increase in student assistants. While these shifts are very slight, they bear watching since they may be related to such recent changes in the research library environment as automation, shared cataloging, and reduced acquisitions.

When studying the data published in this year's ARL Statistics, a few minor changes should be noted. Libraries unable to report figures for their main campus only are coded with a "B" in the main data table so that reports which include one or more branch campuses can be identified easily. The letter code "G" has been used in the main data table to distinguish those reports that do not include government documents in the count of current serials titles. To aid comparability, expenditures of Canadian libraries are again expressed in U.S. dollars; the exchange rate used this year is 1.1843 Canadian dollars to one U.S. dollar.[4]

The rank order tables and index scores presented in this publication are in no way intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL members, evaluations must always be made within the context of local goals and characteristics.

Carol A. Mandel
ARL Associate Executive Director
December 16, 1981

[4]The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1980 through June 1981. Expenditures as reported in Canadian dollars are given in the Footnotes to the Statistics.

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 113 institutions that were members of the Association of Research Libraries in 1981. Each has been assigned a code number for use on the data tables on pages 8-17 in place of the names of the institutions. (See columns labeled "Library Code No." to the left of columns 1 and 12). Numbers 1-101 have been used to designate the 101 university library members of the Association. Numbers 102-113 designate the 12 nonacademic members.

1. Alabama
2. Alberta
3. Arizona
4. Arizona State
5. Boston
6. Brigham Young
7. British Columbia
8. Brown
9. Calif., Berkeley
10. Calif., Davis
11. Calif., Irvine
12. Calif., Los Angeles
13. Calif., Riverside
14. Calif., San Diego
15. Calif., Santa Barbara
16. Case Western Reserve
17. Chicago
18. Cincinnati
19. Colorado
20. Colorado State
21. Columbia
22. Connecticut
23. Cornell
24. Dartmouth
25. Duke
26. Emory
27. Florida
28. Florida State
29. Georgetown
30. Georgia
31. Guelph
32. Harvard
33. Hawaii
34. Houston
35. Howard
36. Illinois
37. Indiana
38. Iowa
39. Iowa State
40. Johns Hopkins
41. Kansas
42. Kent State
43. Kentucky
44. Louisiana State
45. McGill
46. McMaster
47. Manitoba
48. Maryland
49. Massachusetts
50. MIT
51. Miami
52. Michigan
53. Michigan State
54. Minnesota
55. Missouri
56. Nebraska
57. New Mexico
58. New York
59. North Carolina
60. Northwestern
61. Notre Dame
62. Ohio State
63. Oklahoma
64. Oklahoma State
65. Oregon
66. Pennsylvania
67. Pennsylvania State
68. Pittsburgh
69. Princeton
70. Purdue
71. Queen's
72. Rice
73. Rochester
74. Rutgers
75. Saskatchewan
76. South Carolina
77. Southern California
78. Southern Illinois
79. Stanford
80. SUNY-Albany
81. SUNY-Buffalo
82. SUNY-Stony Brook
83. Syracuse
84. Temple
85. Tennessee
86. Texas
87. Texas A & M
88. Toronto
89. Tulane
90. Utah
91. Vanderbilt
92. Virginia
93. Virginia Polytechnic
94. Washington
95. Washington State
96. Washington Univ., St. Louis
97. Wayne State
98. Western Ontario
99. Wisconsin
100. Yale
101. York
*102. Boston Public Library
*103. Center for Research Libraries
*104. John Crerar Library
*105. Library of Congress
*106. Linda Hall Library
*107. National Agricultural Library
*108. National Library of Canada
*109. National Library of Medicine
*110. Newberry Library
*111. New York Public Library
*112. New York State Library
*113. Smithsonian Institution

*Nonacademic library

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1 +GL	1,170,644	41,778	40,356	342,684	12,685	3,040	1,533	4,573	1,457	1,310	2,767
2+GLM	2,146,456	82,389	80,012	1,481,618	14,459	4,497	6,050	10,547	2,124	3,059	5,183
3 +LM	2,639,041	107,328	98,202	2,056,914	30,614	8,214	15,964	24,178	2,269	2,357	4,626
4	1,527,021	93,245	58,371	1,232,621	18,371	6,320	5,839	12,159	5,250	6,875	12,125
5 +LM	1,347,343	47,504	32,601	1,511,923	23,440	3,027	4,289	7,316	2,127	3,785	5,912
6 +	1,523,507	60,731	59,289	872,904	17,319	2,488	1,808	4,297	2,366	2,382	4,748
7 +LM	2,217,021	119,281	109,558	2,478,118	32,301	10,034	11,211	21,245	3,049	4,119	7,168
8 +•	1,709,261	40,115	37,847	674,415	14,871	1,795	3,328	5,123	1,480	986	2,466
9 +L	5,927,773	184,540	169,101	1,676,272	104,793	11,556	17,784	29,340	10,081	4,671	14,752
10 •LM	1,681,545	79,838	75,279	1,659,038	44,084	7,027	22,740	29,767	2,861	2,126	4,987
11 +GM	984,797	45,858	45,785	515,828	13,558	6,334	6,185	12,519	2,934	4,099	7,033
12 +LM	4,346,526	126,073	111,304	2,033,831	65,788	11,171	32,121	43,295	6,429	2,326	8,755
13 +	1,033,177	53,852	52,924	812,851	14,403	2,184	2,058	4,242	2,829	4,754	7,583
14 M	1,426,747	64,266	47,792	802,809	27,629	4,443	13,101	17,544	2,973	2,626	5,599
15 •	1,416,667	43,932	41,440	1,582,798	18,832	1,030	1,764	2,794	4,091	3,999	8,090
16 GLM	1,392,317	26,792	23,951	419,456	13,691	16,216	29,720	45,936	2,608	2,075	4,683
17 +LM	4,441,312	147,928	130,488	807,747	48,721	2,952	21,067	24,019	2,532	499	3,031
18 +LM	1,287,691	40,744	39,106	1,018,291	17,900	N/A	N/A	29,215	N/A	N/A	9,497
19 +L	1,888,207	36,939	35,303	2,151,777	19,076	3,079	6,478	9,557	3,279	2,088	5,367
20 +	1,278,162	58,563	45,239	628,822	16,641	3,750	8,278	12,028	2,965	3,237	6,202
21 +LM	5,112,559	113,313	96,099	2,280,052	59,196	3,337	11,231	14,568	N/A	N/A	4,165
22 +LM	1,689,508	60,306	57,572	1,447,129	15,304	6,352	12,105	18,457	3,219	10,687	13,906
23 +BL	4,318,583	117,666	101,668	2,484,102	55,206	6,968	14,920	21,888	2,122	899	3,021
24 +M	1,433,938	44,197	43,221	1,107,010	18,234	2,969	3,392	6,361	2,201	2,310	4,511
25+•GLM	3,006,026	59,089	53,920	798,409	27,601	7,401	14,632	22,033	2,060	1,423	3,483

B - Includes branch campuses
G - Government documents not included in serials count
L - Includes Law Library
M - Includes Medical Library
N/A - Figures not available
+ - See footnotes
• - Bibliographic count

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	1,327,485	701,943	73,581	1,401,066	1,418,205	147,941	2,967,212	43	57	57	157
2	1,816,159	1,008,281	153,232	1,969,391	5,782,368	538,782	8,290,541	80	283	48	411
3	3,674,784	1,367,676	259,816	3,934,600	3,832,407	922,883	8,689,890	85	181	87	353
4	1,983,121	1,100,911	136,431	2,119,552	2,604,606	444,826	5,168,984	52	126	60	238
5	1,661,003	974,070	93,313	1,754,316	2,624,192	750,963	5,129,471	65	137	55	257
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66	58	165	289
7	2,726,692	N/A	198,242	2,924,934	6,818,130	1,074,248	10,817,312	109	317	55	481
8	1,251,646	715,729	85,043	1,336,689	1,345,109	1,265,176	3,946,974	48	93	43	184
9	3,890,000	1,610,000	360,000	4,250,000	9,700,000	1,440,000	15,390,000	118	251	165	534
10	2,798,138	1,508,326	263,161	3,061,299	4,725,310	707,675	8,494,284	66	142	32	240
11	1,891,829	1,040,045	212,258	2,104,087	3,026,078	523,886	5,654,051	47	95	29	171
12	3,637,295	1,841,468	438,134	4,075,429	9,235,283	2,048,406	15,359,118	160	300	144	604
13	780,924	643,021	120,664	901,588	2,540,467	392,084	3,834,139	32	96	19	147
14	2,021,583	976,188	194,546	2,216,129	4,341,351	905,248	7,462,728	55	152	60	267
15	2,197,000	1,071,000	150,000	2,347,000	4,107,751	516,437	6,971,188	54	140	60	254
16	1,208,446	1,005,683	73,533	1,281,979	1,999,458	414,423	3,695,860	64	82	31	177
17	2,232,777	1,333,378	217,050	2,449,827	3,995,869	1,316,018	7,761,714	69	157	76	302
18	2,372,272	1,098,119	98,887	2,471,159	3,251,141	475,762	6,198,062	66	151	66	283
19	1,181,160	827,984	97,750	1,278,910	2,586,330	268,309	4,133,549	42	101	32	175
20	1,016,568	700,000	93,880	1,110,448	2,098,683	457,028	3,666,159	46	74	22	142
21	2,785,598	1,692,924	220,998	3,006,596	6,940,844	887,984	10,835,424	135	289	109	533
22	1,597,073	1,067,213	31,918	1,628,991	2,640,566	350,967	4,620,524	55	92	66	213
23	3,236,211	N/A	208,501	3,444,712	6,032,089	1,282,882	10,759,683	140	285	97	522
24	1,325,349	913,290	39,466	1,364,815	1,623,912	447,375	3,436,102	35	99	28	162
25	2,225,639	1,466,159	121,437	2,347,076	3,574,827	664,542	6,586,445	88	170	76	334

B - Includes branch campuses
G - Government documents not included in serials count
L - Includes Law Library
M - Includes Medical Library
N/A - Figures not available
+ - See footnotes
* - Bibliographic count

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
26 +LM	1,641,141	51,671	46,821	994,965	14,782	4,953	9,612	14,565	1,884	2,110	3,994
27 +LM	2,231,509	75,578	68,527	2,285,938	44,112	2,915	18,045	20,960	1,846	7,242	9,088
28 +L	1,370,739	52,278	47,449	2,011,634	15,682	9,965	5,254	15,219	3,043	740	3,783
29 +LM	1,284,346	46,328	43,183	846,196	17,842	2,680	2,793	5,473	1,131	2,368	3,499
30 +L	2,062,499	76,853	76,853	2,056,931	32,413	9,172	12,904	22,076	3,982	2,219	6,201
31 +*G	1,238,575	87,711	84,036	717,538	8,792	251	1,882	2,133	1,240	2,429	3,669
32 +LM	10,260,571	211,678	177,908	2,387,994	95,000	6,647	33,767	40,414	2,890	2,785	5,675
33 +G	1,786,335	54,407	50,213	1,234,329	30,781	2,034	5,733	7,767	1,177	2,216	3,393
34 +GL	1,260,137	35,754	34,196	1,165,652	13,153	1,605	2,211	3,816	2,524	3,298	5,822
35 +LM	1,159,411	44,151	43,015	1,186,925	21,194	3,220	259	3,479	2,653	27	2,680
36 GL	6,091,125	172,795	154,302	1,683,035	93,913	75,711	35,593	111,304	12,201	4,845	17,046
37 +L	3,856,121	123,413	96,918	1,072,897	26,462	13,174	13,810	26,984	4,396	1,816	6,212
38 GLM	2,356,096	74,813	60,830	1,618,967	28,234	6,130	19,148	25,278	2,551	2,424	4,975
39	1,401,520	56,984	51,611	1,204,887	18,615	5,669	11,887	17,556	1,960	1,921	3,881
40+BGM	2,346,131	31,922	24,196	1,141,727	16,501	6,706	8,838	15,544	6,204	6,481	12,685
41+BGLM	2,214,824	69,840	66,373	1,060,979	27,796	13,632	11,962	25,594	7,017	5,955	12,972
42 +	1,396,885	45,854	44,793	870,995	8,694	6,817	2,071	8,888	2,196	2,311	4,507
43 +LM	1,816,782	35,909	24,734	2,209,061	34,204	5,266	10,277	15,543	2,630	3,353	5,983
44 +GL	1,884,656	64,614	62,030	1,183,128	19,378	4,017	3,165	7,182	1,653	1,623	3,276
45+*LM	2,068,383	72,509	63,798	488,500	15,300	9,300	24,931	34,231	5,460	2,780	8,240
46 +M	1,186,687	54,950	46,391	840,159	12,776	3,116	4,263	7,379	2,717	3,289	6,006
47+GLM	1,217,053	47,482	36,282	560,079	12,450	7,239	4,551	11,790	2,047	5,029	7,076
48 +G	1,472,031	75,903	68,463	1,480,254	16,737	6,527	5,984	12,511	1,955	968	2,923
49 +G	1,803,647	74,841	72,775	993,566	12,514	3,120	5,279	8,399	3,155	3,051	6,206
50	1,844,451	73,673	46,828	1,028,162	19,593	3,646	14,574	18,220	1,409	1,745	3,154

B - Includes branch campuses
G - Government documents not included in serials count
L - Includes Law Library
M - Includes Medical Library
N/A - Figures not available
+ - See footnotes
* - Bibliographic count

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
26	1,760,746	864,938	128,936	1,889,682	2,129,263	376,703	4,395,648	50	93	34	177
27	2,897,884	1,304,800	206,802	3,104,686	3,865,691	878,808	7,849,185	79	170	135	384
28	1,961,413	980,975	149,418	2,110,831	2,289,437	437,027	4,837,296	57	96	40	193
29	1,593,940	692,703	83,316	1,677,256	2,927,592	601,232	5,206,080	57	88	72	217
30	2,253,589	1,640,121	162,126	2,415,715	2,966,976	346,365	5,729,056	60	145	44	249
31	1,266,033	536,232	38,378	1,304,411	2,068,178	172,939	3,545,528	36	118	14	168
32	5,728,552	2,340,000	539,248	6,267,800	11,727,908	1,820,127	19,815,835	282	543	122	947
33	1,749,203	972,372	130,000	1,879,203	3,162,069	211,873	5,253,145	62	98	64	224
34	1,355,484	938,373	103,371	1,458,855	2,277,809	536,206	4,272,870	54	111	59	224
35	2,677,650	1,025,253	53,593	2,731,243	4,172,076	1,060,451	7,963,770	87	141	26	254
36	3,158,596	1,645,866	92,304	3,250,900	6,252,306	1,127,046	10,640,252	126	285	101	512
37	2,799,242	1,080,780	165,010	2,964,252	5,040,146	587,353	8,591,751	115	203	145	463
38	2,591,725	1,601,852	160,450	2,752,175	3,204,700	274,541	6,231,416	71	114	49	234
39	1,655,289	1,206,322	119,615	1,774,904	2,319,190	290,733	4,384,827	44	108	41	193
40	1,762,695	1,086,246	60,998	1,823,693	2,639,652	750,285	5,213,630	60	142	34	236
41	2,268,756	1,216,649	99,738	2,368,494	3,331,246	688,709	6,388,449	77	129	67	273
42	820,679	456,401	57,219	877,898	1,869,524	359,874	3,107,296	34	88	49	171
43	1,773,131	1,204,616	83,721	1,856,852	2,609,478	450,177	4,916,507	70	133	53	256
44	2,523,571	1,054,488	175,128	2,698,699	2,535,346	420,949	5,654,994	56	93	61	210
45	1,583,709	953,481	114,445	1,698,154	5,570,603	345,260	7,614,017	87	241	31	359
46	1,860,823	833,714	53,982	1,914,806	2,277,749	282,063	4,474,618	36	149	15	200
47	1,251,021	774,919	91,564	1,342,585	3,116,055	226,568	4,685,208	61	166	22	249
48	1,965,580	1,151,560	180,976	2,146,556	4,009,298	534,246	6,690,100	83	151	101	335
49	1,293,518	716,446	47,123	1,340,641	2,644,337	228,176	4,213,154	57	115	47	219
50	1,335,824	911,574	85,379	1,421,203	3,061,527	596,970	5,079,700	73	149	34	256

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ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 +LM	1,379,450	44,008	36,008	1,194,068	15,932	3,833	6,905	10,738	1,928	4,533	6,461
52 +LM	5,345,918	136,571	111,538	2,436,039	59,988	4,303	4,047	8,350	3,020	1,356	4,376
53 +	2,707,779	101,118	93,731	1,174,507	20,090	2,086	6,789	10,875	1,681	2,099	3,780
54 +LM	3,870,712	82,138	56,390	1,354,831	43,651	31,770	108,383	140,153	7,309	7,586	14,895
55 LM	2,068,788	57,210	52,141	2,328,526	21,379	9,328	11,168	20,496	3,375	2,834	6,209
56 L	1,547,212	56,408	53,172	1,345,312	20,692	4,164	7,486	11,650	2,173	1,678	3,851
57	1,043,936	49,336	43,963	1,769,600	15,905	3,608	1,189	4,797	2,408	1,357	3,765
58 +LM	2,613,731	91,911	86,163	1,631,238	28,977	3,640	6,273	9,913	1,485	4,358	5,843
59 +LM	2,722,799	127,764	118,395	1,581,639	38,950	7,952	12,363	20,315	2,162	2,528	4,690
60+BLM	2,838,187	75,208	18,090	1,094,535	31,375	3,230	6,335	9,565	4,048	2,305	6,353
61 +L	1,459,336	44,904	40,617	697,230	14,159	2,005	2,190	4,195	1,409	1,170	2,579
62 +LM	3,615,108	101,884	85,123	1,707,241	29,403	8,391	17,222	25,613	3,991	3,061	7,052
63*GLM	1,858,658	52,162	50,382	1,360,191	16,699	8,318	13,352	21,670	4,901	6,156	11,057
64 +	1,277,829	30,277	24,777	991,041	14,011	3,503	4,815	8,318	2,188	2,419	4,607
65 +L	1,502,404	29,374	28,046	778,731	20,000	8,159	3,499	11,658	3,697	1,853	5,550
66 LM	3,000,650	74,473	61,760	1,362,969	29,169	3,693	4,477	8,170	4,905	3,322	8,227
67 +BG	2,207,098	65,798	57,495	2,263,127	21,737	5,833	7,990	13,823	3,294	2,755	6,049
68 +LM	2,339,242	73,584	70,927	1,382,354	18,766	9,426	21,658	31,084	2,380	3,307	5,687
69 +	3,363,282	78,284	73,808	1,462,882	31,268	5,540	5,710	11,250	2,030	1,237	3,267
70 G	1,468,805	48,446	43,909	1,169,453	17,755	3,136	8,085	11,221	2,916	4,057	6,973
71+GLM	1,410,436	41,572	39,766	814,687	14,071	2,127	1,542	3,669	2,844	2,897	5,741
72 +	1,071,814	40,777	37,208	1,284,183	10,107	7,774	13,554	21,328	919	857	1,776
73 GM	1,745,000	48,000	45,000	1,612,000	12,500	5,000	13,000	18,000	3,000	4,000	7,000
74+BGLM	2,290,013	88,432	73,170	1,652,697	26,583	3,985	15,964	19,949	2,244	3,270	5,514
75+GLM	1,038,148	38,467	38,010	1,183,382	10,184	2,205	3,552	5,757	1,121	3,518	4,639

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ARL Library Data Table

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LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,627,409	1,000,045	96,904	1,724,313	2,518,170	331,334	4,573,817	47	115	64	226
52	3,764,874	2,148,995	332,213	4,097,087	6,976,479	898,554	11,972,120	149	321	132	602
53	1,848,294	1,065,647	131,207	1,979,501	3,598,687	747,079	6,325,267	75	125	98	298
54	2,545,691	1,600,182	222,990	2,768,681	6,670,078	931,542	10,370,301	130	184	129	443
55	1,634,221	1,346,000	127,424	1,761,645	2,381,550	296,529	4,439,724	58	117	45	220
56	1,620,012	1,106,511	86,906	1,706,918	2,186,535	432,444	4,325,897	54	108	39	201
57	1,224,986	675,927	80,726	1,305,712	2,132,445	168,412	3,606,569	45	99	52	196
58	2,102,962	1,220,387	147,339	2,250,301	4,387,223	776,884	7,414,408	86	180	63	329
59	2,911,063	1,069,679	196,841	3,107,904	4,678,220	881,063	8,667,187	108	189	60	357
60	2,238,870	1,362,370	145,069	2,383,939	4,351,197	390,302	7,125,438	101	155	96	352
61	1,289,100	654,198	65,938	1,355,038	1,597,282	222,869	3,175,189	39	91	16	146
62	2,224,206	1,236,282	108,233	2,332,439	5,237,177	1,496,501	9,066,117	101	215	127	443
63	1,793,157	1,005,449	77,847	1,871,004	2,044,449	431,579	4,347,050	52	83	59	194
64	1,043,851	609,637	64,867	1,108,718	1,215,313	293,278	2,617,309	38	52	49	139
65	1,274,319	781,368	71,690	1,346,009	2,283,658	588,769	4,218,436	47	84	53	184
66	2,051,440	1,100,771	458,786	2,510,226	4,357,706	809,512	7,677,444	92	156	74	322
67	2,335,538	1,276,379	116,954	2,452,492	5,405,545	1,096,793	8,954,830	97	265	66	428
68	1,730,337	671,924	133,745	1,864,082	3,656,453	383,236	5,903,771	75	166	72	313
69	2,648,700	1,411,756	175,238	2,823,938	4,617,309	985,363	8,426,610	94	242	53	389
70	1,630,768	1,141,153	100,722	1,731,490	3,065,969	378,728	5,176,187	42	181	53	276
71	1,365,220	701,393	87,670	1,452,890	2,732,775	305,648	4,491,313	42	166	32	240
72	1,267,231	759,286	56,771	1,324,002	1,322,601	437,003	3,083,606	34	66	17	117
73	1,500,000	728,000	96,000	1,596,000	2,234,000	350,000	4,180,000	54	95	32	181
74	2,193,454	1,461,145	191,535	2,384,989	5,246,336	494,675	8,126,000	98	227	54	379
75	1,421,536	809,541	51,479	1,473,015	2,290,273	227,716	3,991,004	42	114	16	172

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ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 [illegible]	1,894,264	67,868	66,824	1,787,437	16,809	6,177	9,965	13,142	2,711	2,361	5,072
77+[illegible]	2,105,389	81,278	69,819	1,296,695	30,766	2,520	1,878	4,398	887	445	1,332
78 +[illegible]	1,866,953	41,253	36,128	2,009,290	20,015	13,803	10,394	24,197	2,265	1,728	3,993
79 +[illegible]	4,813,292	131,303	118,624	2,257,653	46,457	7,483	19,354	26,837	2,127	1,798	3,925
80 +	980,464	47,347	43,600	1,782,721	15,297	4,628	4,854	9,482	3,948	3,805	7,753
81 +[illegible]	2,065,098	72,148	66,643	1,988,445	21,801	3,886	15,822	19,708	2,627	3,849	6,476
82 +[illegible]	1,272,783	46,812	45,976	1,670,140	17,774	2,978	8,210	11,188	N/A	N/A	4,796
83 +[illegible]	1,952,594	68,035	64,282	1,970,813	22,097	1,768	2,057	3,825	1,859	1,358	3,217
84 +[illegible]	1,041,057	54,749	48,208	938,106	15,531	3,692	3,700	7,392	1,437	1,547	2,984
85 +[illegible]	1,382,009	39,322	35,640	1,243,266	24,166	8,710	4,084	12,794	2,264	2,132	4,396
86 +[illegible]	4,702,122	185,225	150,041	2,398,405	60,000	7,277	3,930	11,207	4,914	2,305	7,219
87 +	1,358,220	62,098	58,576	1,815,811	15,347	6,147	19,055	25,202	3,714	3,811	7,525
88+[illegible]	4,631,645	209,558	183,335	1,715,770	44,147	7,461	4,688	12,149	3,430	3,756	7,186
89+[illegible]	1,208,345	28,474	26,940	1,171,649	12,267	2,330	691	9,948	1,642	584	4,464
90 +[illegible]	1,990,000	47,178	39,944	1,739,152	14,600	5,199	3,186	8,385	3,667	2,655	6,322
91 +[illegible]	1,648,025	32,918	18,736	1,084,989	15,491	4,358	1,451	5,809	2,458	689	3,147
92+[illegible]	2,391,585	94,988	70,974	2,659,520	24,432	6,736	2,676	9,412	1,697	521	2,218
93 +	1,285,615	67,534	59,578	2,973,952	23,114	4,797	7,149	11,946	1,775	1,558	3,333
94 +[illegible]	4,024,258	161,622	110,410	3,370,411	42,488	21,321	99,540	120,861	2,931	1,450	4,381
95 +	1,265,979	37,292	34,255	1,791,879	29,900	3,906	3,850	7,756	1,659	2,208	3,867
96 +[illegible]	1,838,820	43,638	40,109	1,079,741	15,232	4,721	9,803	14,524	2,888	4,453	7,341
97+[illegible]	1,878,689	47,173	39,260	1,026,971	13,526	3,441	22,022	25,463	975	2,112	3,087
98 +[illegible]	1,427,722	71,404	64,052	1,260,724	16,000	3,808	5,710	9,518	1,888	2,578	4,466
99 +[illegible]	6,044,136	105,136	98,477	1,940,859	53,823	38,693	62,343	101,036	17,318	10,233	27,551
100 [illegible]	7,578,121	190,521	177,168	1,389,311	58,628	N/A	N/A	12,447	N/A	N/A	4,527

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ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
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	12	13	14	15	16	17	18	19	20	21	22
76	1,716,334	874,064	153,118	1,869,452	2,335,999	258,782	4,464,233	58	106	33	197
77	2,236,454	1,276,000	114,677	2,351,131	3,999,372	688,488	7,038,991	89	147	101	337
78	1,769,921	1,179,005	109,596	1,879,517	3,006,981	604,190	5,490,688	62	114	80	256
79	4,043,791	1,868,954	279,836	4,323,627	7,594,452	2,156,770	14,074,849	150	365	59	574
80	1,353,414	934,349	46,300	1,399,714	2,032,581	297,072	3,729,367	49	101	24	174
81	1,892,461	1,206,814	223,941	2,116,402	3,272,571	610,588	5,999,561	94	137	57	288
82	1,559,802	1,011,587	71,500	1,631,302	2,432,972	331,726	4,396,000	49	124	26	199
83	1,675,388	1,064,818	110,724	1,786,112	2,230,734	439,751	4,456,597	58	143	75	276
84	1,533,356	958,552	99,103	1,632,459	3,005,658	236,158	4,874,275	77	125	56	258
85	1,465,859	1,023,536	120,844	1,586,703	2,311,658	431,143	4,329,504	51	132	52	235
86	4,504,655	1,662,645	128,139	4,632,794	6,453,783	1,296,761	12,383,338	131	331	76	538
87	1,623,785	1,038,955	118,234	1,742,019	2,154,345	310,031	4,206,395	48	124	70	242
88	3,595,212	1,725,524	179,942	3,775,154	9,568,719	1,200,135	14,544,008	164	501	84	749
89	1,260,533	818,980	92,104	1,352,637	1,800,908	374,282	3,527,827	40	79	113	232
90	1,212,493	581,017	59,076	1,271,569	2,270,723	243,240	3,785,532	45	97	66	208
91	1,391,196	939,664	81,035	1,472,231	2,077,293	690,556	4,240,080	51	108	57	216
92	2,558,290	1,287,652	180,985	2,739,275	3,951,877	658,123	7,349,275	81	196	50	327
93	1,851,220	1,249,483	177,600	2,028,820	2,398,304	705,463	5,132,587	57	108	40	205
94	3,171,418	2,067,032	208,211	3,379,629	5,865,824	715,345	9,960,798	120	239	114	473
95	1,339,622	1,034,958	97,128	1,436,750	2,803,579	680,730	4,921,059	49	126	70	245
96	1,714,194	1,100,000	98,280	1,812,474	2,400,440	1,038,862	5,251,776	56	122	52	230
97	1,361,281	862,096	70,495	1,431,776	2,986,255	663,632	5,081,663	60	102	46	208
98	2,093,405	983,773	91,425	2,184,830	3,682,624	190,830	6,058,284	55	210	59	324
99	2,842,618	1,831,902	165,915	3,008,533	6,265,936	1,057,558	10,332,027	128	236	133	497
100	3,334,137	1,622,158	228,671	3,562,808	7,473,517	2,221,158	13,257,483	188	423	45	656

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	1	2	3	4	5	6	7	8	9	10	11
101 +BL	1,329,396	59,657	53,845	1,101,244	11,833	3,750	4,113	7,863	2,277	1,285	3,562
102 +G	4,878,195	117,504	49,145	2,123,398	10,913	14,273	15,290	29,523	339	0	339
103 +G	3,410,367	82,241	82,241	886,533	14,000	25,603	0	25,603	0	0	0
104 +	646,827	N/A	13,287	427,063	10,786	28,785	22,398	51,183	259	0	259
105 L	19,476,647	336,578	253,470	5,714,174	130,000	84,626	39,353	123,979	1,397	N/A	N/A
106 +	516,591	18,585	18,343	683,904	16,034	24,155	52,664	76,819	0	35	35
107 +L	1,737,122	34,689	34,589	434,000	24,100	1,607	23,114	24,721	N/A	N/A	13,780
108 +	856,767	41,020	36,838	970,245	43,488	38,892	12,118	51,010	880	270	1,150
109 +	1,583,160	40,273	39,981	113,577	23,364	15,478	161,029	176,507	14	38	52
110 +*	1,354,242	8,926	8,884	224,166	6,900	N/A	580	2,975	N/A	N/A	N/A
111 +	5,067,909	76,733	40,454	1,751,453	176,060	460	5,453	5,913	1,009	126	1,135
112+GLM	1,783,591	37,113	36,967	2,068,107	27,200	54,566	N/A	54,566	1,560	N/A	1,560
113 +	918,407	21,224	19,623	N/A	15,353	2,612	3,950	6,562	9,348	1,937	11,285

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	12	13	14	15	16	17	18	19	20	21	22
101	1,452,808	831,181	73,904	1,526,712	2,939,472	551,658	5,017,842	48	151	32	231
102	2,535,445	N/A	0	2,535,445	7,164,457	2,254,429	11,954,331	128	242	53	423
103	603,039	195,124	0	603,039	672,751	837,572	2,113,362	16	41	9	66
104	404,793	384,419	58,945	463,738	990,265	736,495	2,190,498	26	47	6	79
105	5,596,614	1,606,271	1,239,070	6,835,684	113,962,000	91,771,316	212,569,000	2,345	2,608	0	4,953
106	710,654	634,490	28,672	739,326	550,500	88,680	1,378,506	19	19	17	55
107	964,000	670,000	80,000	1,044,000	4,690,570	3,988,030	9,722,600	71	64	16	151
108	911,931	201,564	25,331	937,262	9,163,499	4,207,336	14,308,097	199	284	0	483
109	1,810,000	1,170,000	209,000	2,019,000	4,594,000	5,072,000	11,685,000	141	125	39	305
110	330,034	N/A	17,280	347,314	1,682,015	700,730	2,730,059	37	89	0	126
111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	189	643	124	956
112	1,149,557	936,600	55,977	1,205,534	2,729,036	1,170,885	5,105,455	90	161	0	251
113	568,580	304,677	67,000	635,580	2,125,200	424,860	3,185,640	44	53	0	97

B - Includes branch campuses
G - Government documents not included in serials count
L - Includes Law Library
M - Includes Medical Library
N/A - Figures not available
+ - See footnotes
* - Bibliographic count

ARL Library Data Table
Totals

COLLECTIONS					INTERLIBRARY LOANS					
					LOANED			BORROWED		
VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,803,647	60,731	53,920	1,354,831	19,378	4,721	7,149	12,159	2,532	2,382	5,072
UNIVERSITY HIGH										
10,260,571	211,678	183,335	3,370,411	104,793	75,711	108,383	140,153	17,318	10,687	27,551
UNIVERSITY LOW										
980,464	26,792	18,090	419,456	8,694	251	259	2,133	887	27	1,332
TOTALS—UNIVERSITY LIBRARIES										
232,311,493	7,480,017	6,542,986	146,799,384	2,666,527	682,299	1,176,464	1,907,352	298,013	279,451	602,687
TOTALS—NON-UNIVERSITY LIBRARIES										
42,229,825	814,886	633,822	15,396,620	498,198	291,057	335,949	629,361	14,806	2,406	29,595
GRAND TOTALS—ALL ARL LIBRARIES										
274,541,318	8,294,903	7,176,808	162,196,004	3,164,725	973,356	1,512,413	2,536,713	312,819	281,857	632,282

ARL Library Data Table
Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
UNIVERSITY MEDIAN										
1,783,144	1,059,653	115,816	1,884,600	3,006,320	529,066	5,232,703	60	137	57	249
UNIVERSITY HIGH										
5,728,552	2,340,000	539,248	6,267,800	11,727,908	2,221,158	19,815,835	282	543	165	947
UNIVERSITY LOW										
780,924	456,401	31,918	877,898	1,215,313	147,941	2,617,309	32	52	14	117
TOTALS—UNIVERSITY LIBRARIES										
204,568,291	109,832,813	13,930,558	218,498,850	369,417,139	64,857,371	652,783,379	7,552	16,240	6,363	30,155
TOTALS—NON-UNIVERSITY LIBRARIES										
15,584,647	6,103,145	1,781,275	17,365,922	148,324,293	111,252,333	276,942,548	3,305	4,376	264	7,945
GRAND TOTALS—ALL ARL LIBRARIES										
220,152,938	115,935,958	15,711,833	235,864,772	517,741,432	176,109,704	929,725,927	10,857	20,616	6,627	38,100

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 101 university library members.

	Category	High	Median	Low
1.	Professional Staff as percent of Total Staff	36	25	15
2.	Nonprofessional Staff as percent of Total Staff	74	52	20
3.	Student Assistant Staff as percent of Total Staff	57	21	6
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.1:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	27.6:1	2.3:1	0.3:1
6.	Materials Expenditures as percent of Total Operating Expenditures	44	32	20
7.	Serials Expenditures as percent of Materials Expenditures	83	57	36
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	73	55	34
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.5:1	1.7:1	1:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Alabama	46,658	142,563	75,264	578,199
Alberta	82,213	154,521	581,411	663,473
Arizona +	79,062	162,588	N/A	1,815,264
Arizona State	65,002	125,333	183,410	858,876
Boston	43,677	27,382	715,150	725,714
Brigham Young	42,587	53,675	185,633	591,009
British Columbia	67,388	111,976	1,082,500	1,216,254
Brown	24,449	42,645	403,812	203,509
Calif., Berkeley	180,922	140,863	137,141	1,217,346
Calif., Davis	60,641	219,037	337,477	1,041,883
Calif., Irvine	36,306	33,069	238,761	207,692
Calif., Los Angeles +	117,569	1,916,262	N/A	N/A
Calif., Riverside +	34,569	N/A	N/A	778,282
Calif., San Diego	20,648	101,836	0	680,325
Calif., Santa Barbara	37,301	92,958	174,325	1,278,214
Case Western Reserve	20,129	75,513	7,020	316,794
Chicago +	75,358	15,894	74,471	642,024
Cincinnati	43,604	57,147	134,049	783,491
Colorado	39,813	131,040	216,197	1,764,727
Colorado State	21,137	14,758	2,749	590,178
Columbia	132,135	131,961	544,104	1,471,852
Connecticut	41,911	146,880	469,715	788,623
Cornell	96,965	139,794	927,126	1,320,217
Dartmouth	52,262	56,028	161,829	836,891
Duke	199,331	383,651	0	215,427
Emory +	29,000	N/A	N/A	965,965
Florida	116,088	191,647	332,760	1,645,443
Florida State	123,517	247,455	474,668	1,165,994
Georgetown	26,258	26,748	289,512	503,678
Georgia	117,489	273,326	490,248	1,175,868
Guelph	40,786	11,327	0	665,425
Harvard	165,367	87,997	758,673	1,375,957
Hawaii	72,872	127,667	250,855	782,935
Houston	22,873	64,329	170,936	907,514
Howard	65,712	273,909	0	847,304
Illinois	155,465	84,640	242,430	1,200,500
Indiana	85,730	114,866	213,036	659,265
Iowa	91,919	110,633	176,303	1,240,112
Iowa State	31,782	6,396	191,789	974,920
Johns Hopkins +	40,834	581,518	N/A	519,375
Kansas	50,074	72,544	232,542	705,819
Kent State +	51,277	N/A	N/A	819,718
Kentucky	92,306	272,548	417,998	1,426,209
Louisiana State	69,339	205,427	53,566	854,796

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
McGill +	41,822	163,067	N/A	283,611
McMaster	47,239	176,418	197,561	418,941
Manitoba +	35,231	N/A	N/A	524,848
Maryland +	79,313	N/A	N/A	1,400,941
Massachusetts	86,359	10,852	87,798	808,557
MIT	13,635	137,670	N/A	876,857
Miami +	25,921	N/A	N/A	1,168,147
Michigan +	132,235	N/A	N/A	2,303,804
Michigan State +	111,083	780,147	283,277	N/A
Minnesota	87,560	104,617	180,302	982,352
Missouri	N/A	N/A	N/A	N/A
Nebraska	39,290	35,914	522,163	747,945
New Mexico +	71,300	N/A	220,000	1,478,300
New York	76,036	80,362	373,180	1,101,660
North Carolina	102,197	71,119	593,444	814,879
Northwestern	47,937	117,494	74,331	854,773
Notre Dame +	29,680	N/A	240,348	427,202
Ohio State	350,083	88,762	422,719	845,677
Oklahoma	55,175	118,117	201,692	985,207
Oklahoma State	28,445	70,425	253,544	638,627
Oregon	40,711	96,267	282,239	359,514
Pennsylvania	68,672	86,203	744,301	463,793
Pennsylvania State +	171,449	N/A	309,620	1,782,058
Pittsburgh	53,048	112,119	508,393	708,794
Princeton	84,216	186,935	461,187	730,544
Purdue	29,099	232,648	0	907,706
Queen's	N/A	N/A	N/A	N/A
Rice	32,298	133,993	516,025	601,867
Rochester	35,000	171,000	656,000	750,000
Rutgers	96,971	115,054	563,689	876,983
Saskatchewan +	29,966	N/A	N/A	1,153,416
South Carolina	71,073	168,908	536,236	1,011,220
Southern California	33,875	169,301	612,404	481,115
Southern Illinois	100,691	203,974	1,131,494	573,131
Stanford +	128,663	N/A	N/A	2,128,990
SUNY- Albany	209,451	28,624	542,071	1,002,575
SUNY - Buffalo	46,421	182,649	888,437	870,938
SUNY - Stony Brook	47,830	137,289	767,241	717,780
Syracuse	37,976	239,110	812,021	881,706
Temple	50,646	269,005	130,657	487,848
Tennessee +	57,574	281,837	N/A	903,855
Texas	103,225	136,588	612,381	1,546,211
Texas A & M	37,397	96,000	216,460	1,465,954
Toronto	59,505	95,842	1,130,212	430,211

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Tulane +	39,619	N/A	N/A	1,132,030
Utah	N/A	N/A	N/A	N/A
Vanderbilt +	24,032	N/A	401,357	659,600
Virginia	99,779	181,980	303,505	2,074,256
Virginia Polytechnic +	64,051	598,127	N/A	2,311,774
Washington +	93,998	609,617	N/A	2,666,796
Washington State	67,086	199,830	585,318	939,645
Wash. Univ., St. Louis	51,616	26,272	181,495	820,358
Wayne State	39,764	55,346	135,965	795,896
Western Ontario +	54,720	54,134	511,958	639,912
Wisconsin	46,288	53,695	92,838	1,748,038
Yale	101,687	314,619	477,752	495,253
York +	38,467	N/A	N/A	1,062,777
*Boston Public Library +	110,545	55,815	1,251,000	706,038
*Center for Res. Libs. +	262,396	N/A	265,019	359,118
*John Crerar Library	5,950	80,000	N/A	341,113
*Library of Congress	1,020,615	205,016	457,318	4,031,225
*Linda Hall Library	11,412	84,613	0	587,879
*National Agric. Lib.	9,000	1,000	65,000	359,000
*National Lib. of Canada	68,785	16,499	441,246	443,715
*National Lib. of Med.	30,826	0	0	82,751
*Newberry Library	N/A	N/A	N/A	N/A
*New York Public Lib. +	311,318	1,048,439	N/A	391,696
*New York State Library	84,166	160,000	604,602	1,219,339
*Smithsonian Institution	N/A	N/A	N/A	N/A

*Nonuniversity library
N/A - Not available
+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1980			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama	70	38	14,364	963	1,589	500
Alberta	166	39	18,228	2,422	1,963	733
Arizona	225	82	22,687	3,286	3,091	1,616
Arizona State	103	32	24,999	5,111	2,350	2,634
Boston	319	73	18,460	3,112	2,814	1,246
Brigham Young	56	18	23,061	3,061	1,285	475
British Columbia	130	137	19,778	1,807	2,353	363
Brown	126	24	5,420	197	1,052	120
Calif., Berkeley	799	98	28,196	2,687	8,784	472
Calif., Davis	273	49	18,887	N/A	5,112	N/A
Calif., Irvine	65	30	9,600	622	1,383	126
Calif., Los Angeles	507	59	32,281	N/A	12,022	N/A
Calif., Riverside +	103	26	3,015	94	1,292	82
Calif., San Diego	172	32	10,843	223	1,407	0
Calif., Santa Barbara	176	28	12,680	600	1,914	266
Case Western Reserve	138	37	6,054	774	1,663	483
Chicago	339	80	7,769	1,207	4,982	1,135
Cincinnati	195	49	18,533	4,395	4,475	862
Colorado	232	43	19,704	814	2,696	149
Colorado State	161	35	16,227	829	1,758	199
Columbia +	400	54	13,535	1,185	6,786	1,008
Connecticut	194	64	16,360	2,044	2,348	792
Cornell	411	73	17,035	15	3,611	1
Dartmouth	24	10	4,362	14	562	4
Duke +	179	30	9,369	106	1,870	36
Emory	80	22	6,542	257	889	132
Florida	265	58	23,624	1,634	5,060	697
Florida State	113	62	17,902	2,153	2,254	567
Georgetown	70	24	9,564	978	1,239	444
Georgia	197	47	18,337	2,319	3,344	875
Guelph	47	53	9,384	471	671	48
Harvard	331	42	15,499	2,334	6,366	128
Hawaii	110	38	14,917	5,258	1,838	1,704
Houston	133	24	15,958	5,988	1,797	1,301
Howard +	58	24	9,942	1,342	2,782	906
Illinois	622	74	34,792	3,235	8,314	2,121
Indiana	313	99	26,448	902	3,859	429
Iowa	270	57	19,798	2,260	3,021	1,195

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1980			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Iowa State	256	70	21,022	3,732	1,912	1,832
Johns Hopkins	180	45	4,858	1,627	2,558	1,119
Kansas	222	56	20,073	2,277	2,400	1,169
Kent State	60	25	13,790	1,672	1,594	435
Kentucky	128	47	18,207	1,506	2,743	562
Louisiana State	113	45	22,405	2,033	2,726	922
McGill	89	51	14,483	3,486	2,398	1,093
McMaster	87	27	9,872	1,873	1,076	539
Manitoba	52	30	11,344	2,711	1,312	496
Maryland	324	65	27,806	3,537	2,706	1,476
Massachusetts	317	53	21,644	1,012	2,334	550
MIT	424	28	8,770	595	4,336	119
Miami	65	43	12,248	1,602	1,196	536
Michigan	523	133	31,068	2,068	7,068	1,133
Michigan State	483	139	37,404	4,226	3,685	2,072
Minnesota	500	87	39,362	9,335	8,089	413
Missouri	196	59	20,881	2,166	2,251	734
Nebraska	146	42	18,697	2,358	1,475	800
New Mexico	122	31	14,073	3,043	1,452	789
New York +	432	91	17,708	5,405	6,988	4,269
North Carolina	279	58	18,252	1,497	2,659	1,083
Northwestern	301	64	11,951	3,273	3,095	1,360
Notre Dame	92	26	8,889	104	988	38
Ohio State +	530	84	47,010	1,981	6,336	856
Oklahoma	139	72	17,519	2,095	2,645	681
Oklahoma State	115	37	19,434	1,170	1,498	682
Oregon	207	35	14,544	1,009	2,185	155
Pennsylvania	300	83	17,450	1,710	6,675	614
Pennsylvania State	336	88	47,907	4,529	3,601	468
Pittsburgh	335	92	17,205	4,843	3,511	2,032
Princeton	217	52	5,969	0	1,448	0
Purdue	396	53	28,629	1,186	3,406	509
Queen's	90	27	10,804	2,713	1,121	542
Rice	75	24	3,412	29	907	0
Rochester	138	51	6,489	610	1,601	196
Rutgers +	251	49	31,980	5,488	4,129	2,888
Saskatchewan	30	63	9,805	169	617	125
South Carolina	127	29	18,031	8,104	2,779	4,387

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1980			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Southern California +	424	57	17,914	6,047	4,792	4,578
Southern Illinois	161	20	19,351	1,921	907	1,224
Stanford	408	69	11,525	689	3,957	462
SUNY- Albany	69	21	10,095	1,647	1,777	1,235
SUNY - Buffalo	235	65	19,116	4,021	3,158	3,613
SUNY - Stony Brook +	138	25	12,181	N/A	2,524	N/A
Syracuse	164	91	11,457	762	2,853	1,257
Temple	160	60	19,155	4,636	4,435	2,365
Tennessee	159	44	22,862	2,882	2,623	927
Texas	466	70	40,863	2,492	6,731	576
Texas A & M	232	74	29,623	1,446	2,996	479
Toronto	310	65	33,874	4,836	4,806	1,235
Tulane	39	23	5,448	800	1,845	1,920
Utah	193	60	16,522	2,975	1,216	998
Vanderbilt	96	38	8,003	246	792	62
Virginia	176	43	15,253	455	2,895	266
Virginia Polytechnic	168	48	19,779	953	2,325	655
Washington	342	67	28,274	3,683	5,491	893
Washington State	205	33	16,240	1,228	1,558	493
Wash. Univ., St. Louis	111	41	7,155	888	1,384	297
Wayne State	194	38	18,258	6,078	2,267	1,761
Western Ontario	79	29	13,615	2,536	1,681	231
Wisconsin	673	128	34,623	1,678	7,341	786
Yale	286	47	9,715	339	4,609	170
York +	56	31	10,519	1,656	1,304	391

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1980-81 ARL academic library data are:

Volumes held	.12417
Volumes added (gross)	.11785
Microforms held	.07832
Current serials received	.12493
Expenditures for library materials	.12500
Expenditures for binding	.10714
Expenditures for salaries and wages	.12806
Other operating expenditures	.10489
Number of professional staff	.12807
Number of nonprofessional staff	.11823

*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1980-81 index score is:

.12417 (log of volumes held - 6.2994)/.2161
+ .11785 (log of volumes added gross - 4.8182)/.2086
+ .07832 (log of microforms - 6.1263)/.1823
+ .12493 (log of current serials - 4.3507)/.2331
+ .12500 (log of expenditures for materials - 6.2704)/.1662
+ .10714 (log of expenditures for binding - 5.0642)/.2460
+ .12806 (log of total salaries - 6.5068)/.2057
+ .10489 (log of operating expenditures - 5.7245)/.2688
+ .12807 (log of professional staff - 1.8290/.1889
+ .11823 (log of nonprofessional staff - 2.1554)/.2025

The index scores for the 101 academic libraries that were members of ARL during 1980-81 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

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*For calculation on a hand calculator, the formula can be mathematically simplified to:

.57460 x log of volumes held
+ .56496 x log of volumes added gross
+ .42962 x log of microforms
+ .53595 x log of current serials
+ .75211 x log of expenditures for materials
+ .43553 x log of expenditures for binding
+ .62256 x log of total salaries
+ .39022 x log of operating expenditures
+ .67798 x log of professional staff
+ .58385 x log of nonprofessional staff
- 27.01014

ARL Library Index, 1980-1981

1.	Harvard	3.12
2.	Yale	2.19
3.	Calif., Berkeley	2.16
4.	Calif., Los Angeles	2.11
5.	Stanford	2.02
6.	Michigan	1.93
7.	Texas	1.86
8.	Toronto	1.85
9.	Illinois	1.69
10.	Cornell	1.66
11.	Columbia	1.63
12.	Washington	1.51
13.	Wisconsin	1.38
14.	Minnesota	1.15
15.	British Columbia	1.10
16.	North Carolina	1.04
17.	Arizona	.99
18.	Ohio State	.94
19.	Chicago	.91
20.	Indiana	.90
21.	Princeton	.89
22.	Florida	.80
23.	Pennsylvania	.76
24.	Pennsylvania State	.72
25.	Virginia	.70
26.	Rutgers	.68
27.	Calif., Davis	.64
28.	New York	.61
29.	Northwestern	.43
30.	Southern California	.38
31.	SUNY-Buffalo	.34
32.	Duke	.28
33.	Alberta	.26
34.	Michigan State	.24
35.	Georgia	.21
36.	Iowa	.18
37.	Kansas	.15
38.	Maryland	.15
39.	Calif., San Diego	.12
40.	Pittsburgh	.08
41.	Virginia Polytechnic	-.02
42.	Howard	-.04
43.	Calif., Santa Barbara	-.10
44.	Syracuse	-.15
45.	Kentucky	-.15
46.	Louisiana State	-.17
47.	McGill	-.18
48.	Arizona State	-.19
49.	MIT	-.20
50.	Southern Illinois	-.22
51.	Missouri	-.23
52.	Boston	-.24
53.	Cincinnati	-.29
54.	Hawaii	-.29
55.	South Carolina	-.32
56.	Florida State	-.37
57.	Washington, St. Louis	-.37
58.	Washington State	-.39
59.	Johns Hopkins	-.41
60.	Western Ontario	-.42
61.	Purdue	-.45
62.	Temple	-.49
63.	Nebraska	-.49
64.	Tennessee	-.51
65.	Texas A&M	-.52
66.	Wayne State	-.56
67.	Oklahoma	-.60
68.	Brigham Young	-.60
69.	Iowa State	-.61
70.	Georgetown	-.62
71.	Emory	-.62
72.	SUNY-Stony Brook	-.64
73.	Rochester	-.66
74.	Calif., Irvine	-.67
75.	Miami	-.68
76.	Colorado	-.69
77.	Connecticut	-.73
78.	York	-.74
79.	Houston	-.76
80.	Vanderbilt	-.76
81.	Massachusetts	-.77
82.	Utah	-.84
83.	Brown	-.87
84.	Oregon	-.93
85.	Queen's	-.95
86.	SUNY-Albany	-.98
87.	New Mexico	-.98
88.	Manitoba	-.98
89.	Colorado State	-1.01
90.	McMaster	-1.07
91.	Dartmouth	-1.08
92.	Calif., Riverside	-1.12
93.	Tulane	-1.15
94.	Saskatchewan	-1.17
95.	Case Western Reserve	-1.20
96.	Notre Dame	-1.24
97.	Rice	-1.40
98.	Kent State	-1.42
99.	Guelph	-1.42
100.	Alabama	-1.46
101.	Oklahoma State	-1.55

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the fourteen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library
Table 2 - Volumes Added (Gross)
Table 3 - Total Microform Holdings
Table 4 - Current Serials
Table 5 - Professional Staff (FTE)
Table 6 - Nonprofessional Staff (FTE)
Table 7 - Total Staff (FTE)
Table 8 - Materials Expenditures
Table 9 - Materials & Binding Expenditures
Table 10 - Salaries & Wages Expenditures
Table 11 - Total Expenditures
Table 12 - Total Items Loaned
Table 13 - Total Items Borrowed
Table 14 - Current Serials Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	94	84	86	92	88	100	96	83	82	97	99	91	95	87
Alberta	35	26	43	82	33	12	19	49	48	16	23	64	50	57
Arizona	24	17	17	26	30	26	25	6	7	36	18	21	59	20
Arizona State	61	22	58	56	70	55	57	41	42	63	54	51	8	39
Boston	81	69	42	39	46	50	45	60	62	61	56	83	40	64
Brigham Young	62	51	83	62	43	99	37	N/A	N/A	N/A	N/A	93	55	N/A
British Columbia	32	14	5	21	16	7	13	19	19	9	10	28	22	N/A
Brown	54	89	96	79	78	86	84	91	90	98	86	89	98	86
Calif., Berkeley	4	5	33	1	14	14	8	4	4	2	2	11	4	13
Calif., Davis	56	29	35	15	44	46	55	17	15	22	21	10	52	16
Calif., Irvine	100	76	99	88	81	84	92	45	45	49	47	48	25	51
Calif., Los Angeles	11	12	18	4	4	8	4	7	6	4	3	6	12	5
Calif., Riverside	99	62	89	83	101	82	97	100	99	65	87	94	17	94
Calif., San Diego	70	49	91	33	63	37	43	40	39	28	30	38	46	63
Calif., Santa Barbara	71	82	40	53	66	49	49	35	36	30	35	100	15	45
Case Western Reserve	76	101	101	87	47	95	87	95	94	92	90	5	57	58
Chicago	10	8	90	11	42	34	35	32	29	33	27	22	91	23
Cincinnati	83	88	78	58	45	38	39	26	27	43	41	12	10	42
Colorado	44	93	15	52	89	76	89	96	95	64	84	68	49	78
Colorado State	86	55	97	66	84	97	99	98	97	87	91	53	35	89
Columbia	6	16	11	7	8	9	9	18	17	8	9	43	69	8
Connecticut	55	52	46	75	64	89	71	67	71	59	65	34	5	47
Cornell	12	15	4	9	7	10	10	10	10	14	11	25	92	N/A
Dartmouth	69	79	69	57	98	78	95	84	84	95	95	85	62	71
Duke	19	54	92	34	26	29	29	33	35	40	37	24	82	17

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Emory	58	65	79	80	74	87	88	54	50	86	73	44	70	74
Florida	31	33	10	14	34	30	21	14	14	35	26	29	11	24
Florida State	79	63	19	71	57	83	82	43	44	76	63	42	76	62
Georgetown	85	75	85	59	58	91	69	68	68	55	52	88	81	90
Georgia	39	31	16	20	51	44	51	29	30	53	45	23	36	11
Guelph	91	25	94	100	96	62	94	89	93	89	93	101	79	97
Harvard	1	1	8	2	1	1	1	1	1	1	1	7	45	1
Hawaii	52	61	57	24	48	80	65	55	52	45	49	79	83	65
Houston	90	95	67	90	67	69	66	79	77	78	78	97	42	69
Howard	95	80	61	45	27	48	50	20	24	29	25	99	96	54
Illinois	3	6	32	3	12	11	11	12	12	13	12	3	2	10
Indiana	16	13	74	36	15	22	15	16	18	21	20	13	32	44
Iowa	27	36	38	31	40	66	60	22	22	44	40	18	53	14
Iowa State	73	57	59	55	87	70	83	61	60	73	74	37	73	33
Johns Hopkins	28	97	68	67	52	47	58	53	57	60	51	40	7	43
Kansas	33	43	75	32	35	54	42	28	33	41	38	16	6	31
Kent State	75	77	84	101	99	92	93	99	100	93	97	72	63	98
Kentucky	50	94	14	19	41	52	46	51	56	62	61	41	39	34
Louisiana State	45	48	63	51	61	88	72	25	25	66	46	84	85	50
MIT	48	38	76	50	39	42	47	82	81	48	58	35	88	72
Manitoba	92	70	98	95	50	31	52	92	88	46	64	55	23	82
Maryland	64	32	44	64	31	39	28	42	41	31	36	49	94	36
Massachusetts	51	35	80	93	59	64	68	85	89	58	81	73	34	85
McGill	38	40	100	76	28	16	23	69	67	17	29	8	13	67
McMaster	93	59	87	91	97	41	77	46	49	79	68	82	38	76
Miami	78	81	60	69	82	65	64	64	65	67	66	63	29	60
Michigan	5	9	6	6	6	6	5	5	5	7	8	75	68	2
Michigan State	23	20	64	47	37	57	36	48	47	39	39	62	77	48
Minnesota	15	27	51	16	10	25	16	24	21	10	13	1	3	15
Missouri	37	56	9	44	54	63	67	62	61	71	71	30	33	22
Nebraska	60	58	52	46	68	71	76	66	66	83	77	57	75	38
New Mexico	97	66	28	70	85	79	80	93	92	85	92	90	78	91
New York	25	23	37	30	29	28	30	37	38	25	31	66	41	30
North Carolina	22	11	41	18	17	24	24	13	13	23	19	31	56	46
Northwestern	21	34	71	22	18	36	26	30	32	27	33	67	30	21
Notre Dame	66	78	95	84	94	90	98	86	85	96	96	95	97	93
Ohio State	17	19	31	28	19	20	17	34	37	20	16	15	24	29
Oklahoma	47	64	50	65	71	94	81	50	53	90	75	26	9	59

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oklahoma State	87	98	81	86	95	101	100	97	98	100	100	76	60	95
Oregon	63	99	93	49	83	93	85	87	87	77	80	56	47	81
Pennsylvania	20	37	49	29	24	35	33	39	26	26	28	77	14	40
Pennsylvania State	34	47	12	43	21	13	18	27	28	18	17	46	37	26
Pittsburgh	29	39	48	54	38	32	34	56	55	38	44	9	44	92
Princeton	18	30	45	23	22	15	20	21	20	24	22	58	86	19
Purdue	65	67	66	61	90	27	40	53	64	47	53	59	27	37
Queen's	72	85	88	85	91	33	56	77	78	57	67	98	43	88
Rice	96	87	54	99	100	98	101	88	91	99	98	27	100	83
Rochester	53	68	39	94	69	85	86	72	72	81	83	36	26	84
Rutgers	30	24	36	35	20	19	22	36	31	19	24	32	48	18
SUNY Albany	101	71	27	77	75	77	90	80	83	91	89	70	16	70
SUNY Buffalo	40	41	21	42	23	51	38	44	43	42	43	33	28	32
SUNY Stony Brook	88	74	34	50	76	59	78	70	70	68	72	61	54	56
Saskatchewan	98	91	62	98	92	67	91	75	75	75	85	87	58	80
South Carolina	43	45	26	63	55	74	79	57	54	72	69	39	51	73
Southern California	36	28	53	25	25	43	27	31	34	32	34	92	101	27
Southern Illinois	57	86	20	48	49	68	48	52	51	50	48	20	71	35
Stanford	7	10	13	12	5	4	6	3	3	5	5	14	72	4
Syracuse	42	44	22	41	56	45	41	59	59	82	70	96	87	49
Temple	59	60	82	72	36	58	44	71	69	51	62	81	93	66
Tennessee	77	90	56	38	72	53	59	73	73	74	76	47	66	55
Texas	8	4	7	5	9	5	7	2	2	11	7	60	20	9
Texas A & M	80	50	24	74	79	60	54	65	63	84	82	19	18	52
Toronto	9	2	30	13	3	2	2	8	8	3	4	52	21	7
Tulane	74	100	65	96	93	96	61	90	86	94	94	65	65	79
Utah	41	72	29	81	86	81	73	94	96	80	88	74	31	96
Vanderbilt	67	96	72	73	73	72	70	76	76	88	79	86	89	68
Virginia	26	21	3	37	32	23	31	23	23	34	32	71	99	25
Virginia Polytechnic	84	46	2	40	60	73	75	47	46	70	55	54	84	28
Washington	14	7	1	17	13	17	14	11	11	15	15	2	67	3
Washington State	89	92	25	27	77	56	53	81	79	56	60	80	74	53
Washington, St. Louis	49	83	73	78	62	61	63	58	58	69	50	45	19	41
Wayne State	46	73	77	89	53	75	74	78	80	52	57	17	90	75
Western Ontario	68	42	55	68	65	21	32	38	40	37	42	69	64	61
Wisconsin	13	18	23	10	11	18	12	15	16	12	14	4	1	6
Yale	2	3	47	8	2	3	3	9	9	6	6	50	61	12
York	82	53	70	97	80	40	62	74	74	54	59	78	80	77

N/A - Not available

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 7,000 and over
2- 6,000-6,999
3- 5,000-5,999
4- 4,000-4,999
5- 3,000-3,999
6- 2,000-2,999
7- 1,000-1,999
8- under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	10,260,571
	2	Yale	7,579,121
2	3	Illinois	6,091,125
3	4	Calif., Berkeley	5,927,773
	5	Michigan	5,345,918
	6	Columbia	5,112,559
4	7	Stanford	4,813,393
	8	Texas	4,702,122
	9	Toronto	4,631,645
	10	Chicago	4,441,312
	11	Calif., Los Angeles	4,346,526
	12	Cornell	4,318,583
	13	Wisconsin	4,044,136
	14	Washington	4,024,258
5	15	Minnesota	3,870,712
	16	Indiana	3,856,121
	17	Ohio State	3,615,108
	18	Princeton	3,363,282
	19	Duke	3,006,026
	20	Pennsylvania	3,000,650
6	21	Northwestern	2,838,187
	22	North Carolina	2,722,799
	23	Michigan State	2,707,779
	24	Arizona	2,639,041
	25	New York	2,613,731
	26	Virginia	2,391,585
	27	Iowa	2,356,096
	28	Johns Hopkins	2,346,131
	29	Pittsburgh	2,339,242
	30	Rutgers	2,290,013
	31	Florida	2,231,509
	32	British Columbia	2,217,021
	33	Kansas	2,214,824
	34	Pennsylvania State	2,207,098
	35	Alberta	2,146,456
	36	Southern California	2,105,389
	37	Missouri	2,068,788
	38	McGill	2,068,383
	39	Georgia	2,062,499
	40	SUNY-Buffalo	2,003,090
7	41	Utah	1,990,000
	42	Syracuse	1,952,594
	43	South Carolina	1,894,264
	44	Colorado	1,888,207
	45	Louisiana State	1,884,656
	46	Wayne State	1,878,689
	47	Oklahoma	1,858,658
	48	MIT	1,844,451
	49	Washington, St. Louis	1,838,820
	50	Kentucky	1,816,782
	51	Massachusetts	1,803,647
	52	Hawaii	1,786,335
	53	Rochester	1,745,000
	54	Brown	1,709,261
	55	Connecticut	1,689,508
	56	Calif., Davis	1,681,545
	57	Southern Illinois	1,666,953
	58	Emory	1,641,141
	59	Temple	1,641,057
	60	Nebraska	1,547,212
	61	Arizona State	1,527,021
	62	Brigham Young	1,523,507
	63	Oregon	1,502,404
	64	Maryland	1,472,031
	65	Purdue	1,468,805
	66	Notre Dame	1,459,336
	67	Vanderbilt	1,449,025
	68	Western Ontario	1,437,722
	69	Dartmouth	1,433,938
	70	Calif., San Diego	1,426,747
	71	Calif., Santa Barbara	1,416,667
	72	Queen's	1,410,436
	73	Iowa State	1,401,520
	74	Tulane	1,399,345
	75	Kent State	1,396,885
	76	Case Western Reserve	1,392,317
	77	Tennessee	1,392,009
	78	Miami	1,379,450
	79	Florida State	1,370,739
	80	Texas A & M	1,358,220
	81	Boston	1,347,343
	82	York	1,329,396
	83	Cincinnati	1,287,691
	84	Virginia Polytechnic	1,285,615
	85	Georgetown	1,284,346
	86	Colorado State	1,278,162
	87	Oklahoma State	1,277,829
	88	SUNY-Stony Brook	1,272,783
	89	Washington State	1,265,979
	90	Houston	1,260,137
	91	Guelph	1,238,575
	92	Manitoba	1,217,053
	93	McMaster	1,186,687
	94	Alabama	1,170,644
	95	Howard	1,159,411
	96	Rice	1,071,814
	97	New Mexico	1,043,936
	98	Saskatchewan	1,038,148
	99	Calif., Riverside	1,033,177
8	100	Calif., Irvine	984,797
	101	SUNY-Albany	980,464

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200,000 and over
2- 180,000-199,999
3- 160,000-179,999
4- 140,000-159,999
5- 120,000-139,999
6- 100,000-119,999
7- 80,000- 99,999
8- 60,000- 79,999
9- 40,000- 59,999
10- under 40,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	211,678		49	Calif., San Diego	64,266
	2	Toronto	209,558		50	Texas A & M	62,098
					51	Brigham Young	60,731
2	3	Yale	190,521		52	Connecticut	60,306
	4	Texas	185,225				
	5	Calif., Berkeley	184,540	9	53	York	59,657
					54	Duke	59,089
3	6	Illinois	172,795		55	Colorado State	58,563
	7	Washington	161,622		56	Missouri	57,210
					57	Iowa State	56,984
4	8	Chicago	147,928		58	Nebraska	56,408
					59	McMaster	54,950
5	9	Michigan	136,571		60	Temple	54,749
	10	Stanford	131,303		61	Hawaii	54,407
	11	North Carolina	127,764		62	Calif., Riverside	53,852
	12	Calif., Los Angeles	126,073		63	Florida State	52,278
	13	Indiana	123,413		64	Oklahoma	52,162
					65	Emory	51,671
6	14	British Columbia	119,281		66	New Mexico	49,336
	15	Cornell	117,666		67	Purdue	48,446
	16	Columbia	113,313		68	Rochester	48,000
	17	Arizona	107,328		69	Boston	47,504
	18	Wisconsin	105,136		70	Manitoba	47,482
	19	Ohio State	101,884		71	SUNY-Albany	47,347
	20	Michigan State	101,118		72	Utah	47,178
					73	Wayne State	47,175
7	21	Virginia	94,088		74	SUNY-Stony Brook	46,812
	22	Arizona State	93,245		75	Georgetown	46,328
	23	New York	91,911		76	Calif., Irvine	45,858
	24	Rutgers	88,432		77	Kent State	45,854
	25	Guelph	87,711		78	Notre Dame	44,904
	26	Alberta	82,389		79	Dartmouth	44,197
	27	Minnesota	82,138		80	Howard	44,151
	28	Southern California	81,278		81	Miami	44,008
					82	Calif., Santa Barbara	43,932
8	29	Calif., Davis	79,838		83	Washington, St. Louis	43,638
	30	Princeton	78,284		84	Alabama	41,778
	31	Georgia	76,853		85	Queen's	41,572
	32	Maryland	75,903		86	Southern Illinois	41,253
	33	Florida	75,578		87	Rice	40,777
	34	Northwestern	75,208		88	Cincinnati	40,744
	35	Massachusetts	74,841		89	Brown	40,115
	36	Iowa	74,813				
	37	Pennsylvania	74,473	10	90	Tennessee	39,322
	38	MIT	73,673		91	Saskatchewan	38,467
	39	Pittsburgh	73,584		92	Washington State	37,392
	40	McGill	72,509		93	Colorado	36,939
	41	SUNY-Buffalo	72,148		94	Kentucky	35,909
	42	Western Ontario	71,404		95	Houston	35,754
	43	Kansas	69,840		96	Vanderbilt	32,918
	44	Syracuse	68,035		97	Johns Hopkins	31,922
	45	South Carolina	67,868		98	Oklahoma State	30,277
	46	Virginia Polytechnic	67,534		99	Oregon	29,374
	47	Pennsylvania State	65,798		100	Tulane	28,474
	48	Louisiana State	64,614		101	Case Western Reserve	26,792

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,000 and over
2- 2,500-2,999
3- 2,000-2,499
4- 1,500-1,999
5- 1,000-1,499
6- 500- 999
7- under 500

Gp	Rank	Institution	Value
1	1	Washington	3,370,411
2	2	Virginia Polytechnic	2,973,952
	3	Virginia	2,659,520
3	4	Cornell	2,484,102
	5	British Columbia	2,478,118
	6	Michigan	2,436,039
	7	Texas	2,398,405
	8	Harvard	2,387,994
	9	Missouri	2,328,526
	10	Florida	2,285,938
	11	Columbia	2,280,052
	12	Pennsylvania State	2,263,127
	13	Stanford	2,257,653
	14	Kentucky	2,209,061
	15	Colorado	2,151,777
	16	Georgia	2,056,931
	17	Arizona	2,056,914
	18	Calif., Los Angeles	2,033,831
	19	Florida State	2,011,634
	20	Southern Illinois	2,009,290
4	21	SUNY-Buffalo	1,988,445
	22	Syracuse	1,970,813
	23	Wisconsin	1,940,859
	24	Texas A & M	1,815,811
	25	Washington State	1,791,879
	26	South Carolina	1,787,437
	27	SUNY-Albany	1,782,721
	28	New Mexico	1,769,600
	29	Utah	1,739,152
	30	Toronto	1,715,770
	31	Ohio State	1,707,241
	32	Illinois	1,683,035
	33	Calif., Berkeley	1,676,272
	34	SUNY-Stony Brook	1,670,140
	35	Calif., Davis	1,659,038
	36	Rutgers	1,652,697
	37	New York	1,631,238
	38	Iowa	1,618,967
	39	Rochester	1,612,000
	40	Calif., Santa Barbara	1,582,798
	41	North Carolina	1,581,639
	42	Boston	1,511,923
5	43	Alberta	1,481,618
	44	Maryland	1,480,254
	45	Princeton	1,462,882
	46	Connecticut	1,447,129
	47	Yale	1,389,311
	48	Pittsburgh	1,382,354
	49	Pennsylvania	1,362,969
	50	Oklahoma	1,360,191
	51	Minnesota	1,354,831
	52	Nebraska	1,345,312
	53	Southern California	1,296,695
	54	Rice	1,284,183
	55	Western Ontario	1,260,724
	56	Tennessee	1,243,266
	57	Hawaii	1,234,329
	58	Arizona State	1,232,621
	59	Iowa State	1,204,887
	60	Miami	1,194,068
	61	Howard	1,186,925
	62	Saskatchewan	1,183,382
	63	Louisiana State	1,183,128
	64	Michigan State	1,174,507
	65	Tulane	1,171,649
	66	Purdue	1,169,453
	67	Houston	1,165,652
	68	Johns Hopkins	1,141,727
	69	Dartmouth	1,107,010
	70	York	1,101,244
	71	Northwestern	1,094,535
	72	Vanderbilt	1,084,989
	73	Washington, St. Louis	1,079,741
	74	Indiana	1,072,897
	75	Kansas	1,060,979
	76	MIT	1,028,162
	77	Wayne State	1,026,971
	78	Cincinnati	1,018,291
6	79	Emory	994,965
	80	Massachusetts	993,566
	81	Oklahoma State	991,041
	82	Temple	938,156
	83	Brigham Young	872,904
	84	Kent State	870,995
	85	Georgetown	846,196
	86	Alabama	842,684
	87	McMaster	840,159
	88	Queen's	814,687
	89	Calif., Riverside	812,851
	90	Chicago	807,747
	91	Calif., San Diego	802,809
	92	Duke	798,409
	93	Oregon	778,731
	94	Guelph	717,538
	95	Notre Dame	697,230
	96	Brown	674,415
	97	Colorado State	628,822
	98	Manitoba	560,079
	99	Calif., Irvine	515,828
7	100	McGill	488,500
	101	Case Western Reserve	419,456

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 70,000 and over
2- 60,000-69,999
3- 50,000-59,999
4- 40,000-49,999
5- 30,000-39,999
7- 20,000-29,999
8- 10,000-19,999
9- under 10,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	104,793
	2	Harvard	95,000
	3	Illinois	93,913
2	4	Calif., Los Angeles	65,788
	5	Texas	60,000
3	6	Michigan	59,988
	7	Columbia	59,196
	8	Yale	58,628
	9	Cornell	55,206
	10	Wisconsin	53,823
4	11	Chicago	48,721
	12	Stanford	46,457
	13	Toronto	44,147
	14	Florida	44,112
	15	Calif., Davis	44,084
	16	Minnesota	43,651
	17	Washington	42,488
5	18	North Carolina	38,950
	19	Kentucky	34,204
	20	Georgia	32,413
	21	British Columbia	32,301
	22	Northwestern	31,375
	23	Princeton	31,268
	24	Hawaii	30,781
	25	Southern California	30,766
	26	Arizona	30,614
6	27	Washington State	29,900
	28	Ohio State	29,403
	29	Pennsylvania	29,169
	30	New York	28,977
	31	Iowa	28,234
	32	Kansas	27,796
	33	Calif., San Diego	27,629
	34	Duke	27,601
	35	Rutgers	26,583
	36	Indiana	26,462
	37	Virginia	24,432
	38	Tennessee	24,166
	39	Boston	23,440
	40	Virginia Polytechnic	23,114
	41	Syracuse	22,097
	42	SUNY-Buffalo	21,801
	43	Pennsylvania State	21,737
	44	Missouri	21,379
	45	Howard	21,194
	46	Nebraska	20,692
	47	Michigan State	20,090
	48	Southern Illinois	20,015
	49	Oregon	20,000
7	50	MIT	19,593
	51	Louisiana State	19,378
	52	Colorado	19,076
	53	Calif., Santa Barbara	18,832
	54	Pittsburgh	18,766
	55	Iowa State	18,615
	56	Arizona State	18,371
	57	Dartmouth	18,234
	58	Cincinnati	17,900
	59	Georgetown	17,842
	60	SUNY-Stony Brook	17,774
	61	Purdue	17,755
	62	Brigham Young	17,319
	63	South Carolina	16,809
	64	Maryland	16,737
	65	Oklahoma	16,699
	66	Colorado State	16,641
	67	Johns Hopkins	16,501
	68	Western Ontario	16,000
	69	Miami	15,932
	70	New Mexico	15,905
	71	Florida State	15,682
	72	Temple	15,531
	73	Vanderbilt	15,491
	74	Texas A & M	15,347
	75	Connecticut	15,304
	76	McGill	15,300
	77	SUNY-Albany	15,297
	78	Washington, St. Louis	15,232
	79	Brown	14,871
	80	Emory	14,782
	81	Utah	14,600
	82	Alberta	14,459
	83	Calif., Riverside	14,403
	84	Notre Dame	14,159
	85	Queen's	14,071
	86	Oklahoma State	14,011
	87	Case Western Reserve	13,691
	88	Calif., Irvine	13,558
	89	Wayne State	13,526
	90	Houston	13,153
	91	McMaster	12,776
	92	Alabama	12,685
	93	Massachusetts	12,514
	94	Rochester	12,500
	95	Manitoba	12,450
	96	Tulane	12,267
	97	York	11,833
	98	Saskatchewan	10,184
	99	Rice	10,107
8	100	Guelph	8,792
	101	Kent State	8,694

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200 and over	5- 100-124
2- 175-199	6- 75- 99
3- 150-174	7- 50- 74
4- 125-149	8- 25- 49

Gp	Rank	Institution	Value
1	1	Harvard	282
2	2	Yale	188
3	3	Toronto	164
	4	Calif., Los Angeles	160
	5	Stanford	150
4	6	Michigan	149
	7	Cornell	140
	8	Columbia	135
	9	Texas	131
	10	Minnesota	130
	11	Wisconsin	128
	12	Illinois	126
5	13	Washington	120
	14	Calif., Berkeley	118
	15	Indiana	115
	16	British Columbia	109
	17	North Carolina	108
	18	Northwestern	101
	18	Ohio State	101
6	20	Rutgers	98
	21	Pennsylvania State	97
	22	Princeton	94
	22	SUNY-Buffalo	94
	24	Pennsylvania	92
	25	Southern California	89
	26	Duke	88
	27	Howard	87
	27	McGill	87
	29	New York	86
	30	Arizona	85
	31	Maryland	83
	32	Virginia	81
	33	Alberta	80
	34	Florida	79
	35	Kansas	77
	35	Temple	77
	37	Michigan State	75
	37	Pittsburgh	75
7	39	MIT	73
	40	Iowa	71
	41	Kentucky	70
	42	Chicago	69
	43	Brigham Young	66
	43	Calif., Davis	66
	43	Cincinnati	66
	46	Boston	65
	47	Case Western Reserve	64
	48	Hawaii	62
	48	Southern Illinois	62
	50	Manitoba	61
	51	Georgia	60
	51	Johns Hopkins	60
	51	Wayne State	60
	54	Missouri	58
	54	South Carolina	58
	54	Syracuse	58
	57	Florida State	57
	57	Georgetown	57
	57	Massachusetts	57
	57	Virginia Polytechnic	57
	61	Louisiana State	56
	61	Washington, St. Louis	56
	63	Calif., San Diego	55
	63	Connecticut	55
	63	Western Ontario	55
	66	Calif., Santa Barbara	54
	66	Houston	54
	66	Nebraska	54
	66	Rochester	54
	70	Arizona State	52
	70	Oklahoma	52
	72	Tennessee	51
	72	Vanderbilt	51
	74	Emory	50
8	75	SUNY-Albany	49
	75	SUNY-Stony Brook	49
	75	Washington State	49
	78	Brown	48
	78	Texas A & M	48
	78	York	48
	81	Calif., Irvine	47
	81	Miami	47
	81	Oregon	47
	84	Colorado State	46
	85	New Mexico	45
	85	Utah	45
	87	Iowa State	44
	88	Alabama	43
	89	Colorado	42
	89	Purdue	42
	89	Queen's	42
	89	Saskatchewan	42
	93	Tulane	40
	94	Notre Dame	39
	95	Oklahoma State	38
	96	Guelph	36
	96	McMaster	36
	98	Dartmouth	35
	99	Kent State	34
	99	Rice	34
	101	Calif., Riverside	32

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over
2- 400-449
3- 350-399
4- 300-349
5- 250-299
6- 200-249
7- 150-199
8- 100-149
9- 50- 99

Gp	Rank	Institution	Value
1	1	Harvard	543
	2	Toronto	501
2	3	Yale	423
3	4	Stanford	365
4	5	Texas	331
	6	Michigan	321
	7	British Columbia	317
	8	Calif., Los Angeles	300
5	9	Columbia	289
	10	Cornell	285
	10	Illinois	285
	12	Alberta	283
	13	Pennsylvania State	265
	14	Calif., Berkeley	251
6	15	Princeton	242
	16	McGill	241
	17	Washington	239
	18	Wisconsin	236
	19	Rutgers	227
	20	Ohio State	215
	21	Western Ontario	210
	22	Indiana	203
7	23	Virginia	196
	24	North Carolina	189
	25	Minnesota	184
	26	Arizona	181
	26	Purdue	181
	28	New York	180
	29	Duke	170
	29	Florida	170
	31	Manitoba	166
	31	Pittsburgh	166
	31	Queen's	166
	34	Chicago	157
	35	Pennsylvania	156
	36	Northwestern	155
	37	Calif., San Diego	152
	38	Cincinnati	151
	38	Maryland	151
	38	York	151
8	41	McMaster	149
	41	MIT	149
	43	Southern California	147
	44	Georgia	145
	45	Syracuse	143
	46	Calif., Davis	142
	46	Johns Hopkins	142
	48	Howard	141
	49	Calif., Santa Barbara	140
	50	Boston	137
	50	SUNY-Buffalo	137
	52	Kentucky	133
	53	Tennessee	132
	54	Kansas	129
	55	Arizona State	126
	55	Washington State	126
	57	Michigan State	125
	57	Temple	125
	59	SUNY-Stony Brook	124
	59	Texas A & M	124
	61	Washington, St. Louis	122
	62	Guelph	118
	63	Missouri	117
	64	Massachusetts	115
	64	Miami	115
	66	Iowa	114
	66	Saskatchewan	114
	66	Southern Illinois	114
	69	Houston	111
	70	Iowa State	108
	70	Nebraska	108
	70	Vanderbilt	108
	70	Virginia Polytechnic	108
	74	South Carolina	106
	75	Wayne State	102
	76	Colorado	101
	76	SUNY-Albany	101
9	78	Dartmouth	99
	78	New Mexico	99
	80	Hawaii	98
	81	Utah	97
	82	Calif., Riverside	96
	82	Florida State	96
	84	Calif., Irvine	95
	84	Rochester	95
	86	Brown	93
	86	Emory	93
	86	Louisiana State	93
	89	Connecticut	92
	90	Notre Dame	91
	91	Georgetown	88
	91	Kent State	88
	93	Oregon	84
	94	Oklahoma	83
	95	Case Western Reserve	82
	96	Tulane	79
	97	Colorado State	74
	98	Rice	66
	99	Brigham Young	58
	100	Alabama	57
	101	Oklahoma State	52

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over	7- 350-399
2- 600-649	8- 300-349
3- 550-599	9- 250-299
4- 500-549	10- 200-249
5- 450-499	11- 150-199
6- 400-449	12- under 150

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	947		49	Calif., Santa Barbara	254
	2	Toronto	749		49	Howard	254
	3	Yale	656				
				10	51	Georgia	249
2	4	Calif., Los Angeles	604		51	Manitoba	249
	5	Michigan	602		53	Washington State	245
					54	Texas A & M	242
3	6	Stanford	574		55	Calif., Davis	240
					55	Queen's	240
4	7	Texas	538		57	Arizona State	238
	8	Calif., Berkeley	534		58	Johns Hopkins	236
	9	Columbia	533		59	Tennessee	235
	10	Cornell	522		60	Iowa	234
	11	Illinois	512		61	Tulane	232
					62	York	231
5	12	Wisconsin	497		63	Washington, St. Louis	230
	13	British Columbia	481		64	Miami	226
	14	Washington	473		65	Hawaii	224
	15	Indiana	463		65	Houston	224
					67	Missouri	220
6	16	Minnesota	443		68	Massachusetts	219
	16	Ohio State	443		69	Georgetown	217
	18	Pennsylvania State	428		70	Vanderbilt	216
	19	Alberta	411		71	Connecticut	213
					72	Louisiana State	210
7	20	Princeton	389		73	Utah	208
	21	Florida	384		73	Wayne State	208
	22	Rutgers	379		75	Virginia Polytechnic	205
	23	McGill	359		76	Nebraska	201
	24	North Carolina	357		77	McMaster	200
	25	Arizona	353				
	26	Northwestern	352	11	78	SUNY-Stony Brook	199
					79	South Carolina	197
8	27	Southern California	337		80	New Mexico	196
	28	Maryland	335		81	Oklahoma	194
	29	Duke	334		82	Florida State	193
	30	New York	329		82	Iowa State	193
	31	Virginia	327		84	Brown	184
	32	Western Ontario	324		84	Oregon	184
	33	Pennsylvania	322		86	Rochester	181
	34	Pittsburgh	313		87	Case Western Reserve	177
	35	Chicago	302		87	Emory	177
					89	Colorado	175
9	36	Michigan State	298		90	SUNY-Albany	174
	37	Brigham Young	289		91	Saskatchewan	172
	38	SUNY-Buffalo	288		92	Calif., Irvine	171
	39	Cincinnati	283		92	Kent State	171
	40	Purdue	276		94	Guelph	168
	40	Syracuse	276		95	Dartmouth	162
	42	Kansas	273		96	Alabama	157
	43	Calif., San Diego	267				
	44	Temple	258	12	97	Calif., Riverside	147
	45	Boston	257		98	Notre Dame	146
	46	Kentucky	256		99	Colorado State	142
	46	MIT	256		100	Oklahoma State	139
	46	Southern Illinois	256		101	Rice	117

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	5,000 and over	6-	2,500-2,999
2-	4,500-4,999	7-	2,000-2,499
3-	4,000-4,499	8-	1,500-1,999
4-	3,500-3,999	9-	1,000-1,499
5-	3,000-3,499	10-	under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	5,728,552
2	2	Texas	4,504,655
3	3	Stanford	4,043,791
4	4	Calif., Berkeley	3,890,000
	5	Michigan	3,764,874
	6	Arizona	3,674,784
	7	Calif., Los Angeles	3,637,295
	8	Toronto	3,595,212
5	9	Yale	3,334,137
	10	Cornell	3,236,211
	11	Washington	3,171,418
	12	Illinois	3,158,596
6	13	North Carolina	2,911,063
	14	Florida	2,897,884
	15	Wisconsin	2,842,618
	16	Indiana	2,799,242
	17	Calif., Davis	2,798,138
	18	Columbia	2,785,598
	19	British Columbia	2,726,692
	20	Howard	2,677,650
	21	Princeton	2,648,700
	22	Iowa	2,591,725
	23	Virginia	2,558,290
	24	Minnesota	2,545,691
	25	Louisiana State	2,523,571
7	26	Cincinnati	2,372,272
	27	Pennsylvania State	2,335,538
	28	Kansas	2,268,756
	29	Georgia	2,253,589
	30	Northwestern	2,238,870
	31	Southern California	2,236,454
	32	Chicago	2,232,777
	33	Duke	2,225,639
	34	Ohio State	2,224,206
	35	Calif., Santa Barbara	2,197,000
	36	Rutgers	2,193,454
	37	New York	2,102,962
	38	Western Ontario	2,093,405
	39	Pennsylvania	2,051,440
	40	Calif., San Diego	2,021,583
8	41	Arizona State	1,983,121
	42	Maryland	1,965,580
	43	Florida State	1,961,413
	44	SUNY-Buffalo	1,892,461
	45	Calif., Irvine	1,891,829
	46	McMaster	1,860,823
	47	Virginia Polytechnic	1,851,220
	48	Michigan State	1,848,294
	49	Alberta	1,816,159
	50	Oklahoma	1,793,157
	51	Kentucky	1,773,131
	52	Southern Illinois	1,769,921
	53	Johns Hopkins	1,762,695
	54	Emory	1,760,746
	55	Hawaii	1,749,203
	56	Pittsburgh	1,730,337
	57	South Carolina	1,716,334
	58	Washington, St. Louis	1,714,194
	59	Syracuse	1,675,388
	60	Boston	1,661,003
	61	Iowa State	1,655,289
	62	Missouri	1,634,221
	63	Purdue	1,630,768
	64	Miami	1,627,409
	65	Texas A & M	1,623,785
	66	Nebraska	1,620,012
	67	Connecticut	1,597,073
	68	Georgetown	1,593,940
	69	McGill	1,583,709
	70	SUNY-Stony Brook	1,559,802
	71	Temple	1,533,356
	72	Rochester	1,500,000
9	73	Tennessee	1,465,859
	74	York	1,452,808
	75	Saskatchewan	1,421,536
	76	Vanderbilt	1,391,196
	77	Queen's	1,365,220
	78	Wayne State	1,361,281
	79	Houston	1,355,484
	80	SUNY-Albany	1,353,414
	81	Washington State	1,339,623
	82	MIT	1,335,824
	83	Alabama	1,327,485
	84	Dartmouth	1,325,349
	85	Massachusetts	1,293,518
	86	Notre Dame	1,289,100
	87	Oregon	1,274,319
	88	Rice	1,267,231
	89	Guelph	1,266,033
	90	Tulane	1,260,533
	91	Brown	1,251,646
	92	Manitoba	1,251,021
	93	New Mexico	1,224,986
	94	Utah	1,212,493
	95	Case Western Reserve	1,208,446
	96	Colorado	1,181,160
	97	Oklahoma State	1,043,851
	98	Colorado State	1,016,568
10	99	Kent State	820,679
	100	Calif., Riverside	780,924

Brigham Young figure not published.

RANK ORDER TABLE 9: MATERIALS AND BINDING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 4,500 and over
2- 4,000-4,499
3- 3,500-3,999
4- 3,000-3,499
5- 2,500-2,999
6- 2,000-2,499
7- 1,500-1,999
8- 1,000-1,499
9- under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	6,267,800
	2	Texas	4,632,794
2	3	Stanford	4,323,627
	4	Calif., Berkeley	4,250,000
	5	Michigan	4,097,087
	6	Calif., Los Angeles	4,075,429
3	7	Arizona	3,934,600
	8	Toronto	3,775,154
	9	Yale	3,562,808
4	10	Cornell	3,444,712
	11	Washington	3,379,629
	12	Illinois	3,250,900
	13	North Carolina	3,107,904
	14	Florida	3,104,686
	15	Calif., Davis	3,061,299
	16	Wisconsin	3,008,533
	17	Columbia	3,006,596
5	18	Indiana	2,964,252
	19	British Columbia	2,924,934
	20	Princeton	2,823,938
	21	Minnesota	2,768,681
	22	Iowa	2,752,175
	23	Virginia	2,739,275
	24	Howard	2,731,243
	25	Louisiana State	2,698,699
	26	Pennsylvania	2,510,226
6	27	Cincinnati	2,471,159
	28	Pennsylvania State	2,452,492
	29	Chicago	2,449,827
	30	Georgia	2,415,715
	31	Rutgers	2,384,989
	32	Northwestern	2,383,939
	33	Kansas	2,368,494
	34	Southern California	2,351,131
	35	Duke	2,347,076
	36	Calif., Santa Barbara	2,347,000
	37	Ohio State	2,332,439
	38	New York	2,250,301
	39	Calif., San Diego	2,216,129
	40	Western Ontario	2,184,830
	41	Maryland	2,146,556
	42	Arizona State	2,119,552
	43	SUNY-Buffalo	2,116,402
	44	Florida State	2,110,831
	45	Calif., Irvine	2,104,087
	46	Virginia Polytechnic	2,028,820
7	47	Michigan State	1,979,501
	48	Alberta	1,969,391
	49	McMaster	1,914,806
	50	Emory	1,889,682
	51	Southern Illinois	1,879,517
	52	Hawaii	1,879,203
	53	Oklahoma	1,871,004
	54	South Carolina	1,869,452
	55	Pittsburgh	1,864,082
	56	Kentucky	1,856,852
	57	Johns Hopkins	1,823,693
	58	Washington, St. Louis	1,812,474
	59	Syracuse	1,786,112
	60	Iowa State	1,774,904
	61	Missouri	1,761,645
	62	Boston	1,754,316
	63	Texas A & M	1,742,019
	64	Purdue	1,731,490
	65	Miami	1,724,313
	66	Nebraska	1,706,918
	67	McGill	1,698,154
	68	Georgetown	1,677,256
	69	Temple	1,632,459
	70	SUNY-Stony Brook	1,631,302
	71	Connecticut	1,628,991
	72	Rochester	1,596,000
	73	Tennessee	1,586,703
	74	York	1,526,712
8	75	Saskatchewan	1,473,015
	76	Vanderbilt	1,472,231
	77	Houston	1,458,855
	78	Queen's	1,452,890
	79	Washington State	1,436,750
	80	Wayne State	1,431,776
	81	MIT	1,421,203
	82	Alabama	1,401,066
	83	SUNY-Albany	1,399,714
	84	Dartmouth	1,364,815
	85	Notre Dame	1,355,038
	86	Tulane	1,352,637
	87	Oregon	1,346,009
	88	Manitoba	1,342,585
	89	Massachusetts	1,340,641
	90	Brown	1,336,689
	91	Rice	1,324,002
	92	New Mexico	1,305,712
	93	Guelph	1,304,411
	94	Case Western Reserve	1,281,979
	95	Colorado	1,278,910
	96	Utah	1,271,569
	97	Colorado State	1,110,448
	98	Oklahoma State	1,108,718
9	99	Calif., Riverside	901,588
	100	Kent State	877,898

Brigham Young figure not published.

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	10,000 and over	6-	5,000-5.999
2-	9,000-9,999	7-	4,000-4,999
3-	8,000-8,999	8-	3,000-3,999
4-	7,000-7,999	9-	2,000-2,999
5-	6,000-6,999	10-	1,000-1,999

Gp	Rank	Institution	Value
1	1	Harvard	11,727,908
2	2	Calif., Berkeley	9,700,000
	3	Toronto	9,568,719
	4	Calif., Los Angeles	9,235,283
4	5	Stanford	7,594,452
	6	Yale	7,473,517
5	7	Michigan	6,976,479
	8	Columbia	6,940,844
	9	British Columbia	6,818,130
	10	Minnesota	6,670,078
	11	Texas	6,453,783
	12	Wisconsin	6,265,936
	13	Illinois	6,252,306
	14	Cornell	6,032,089
6	15	Washington	5,865,824
	16	Alberta	5,782,368
	17	McGill	5,570,603
	18	Pennsylvania State	5,405,545
	19	Rutgers	5,246,336
	20	Ohio State	5,237,177
	21	Indiana	5,040,146
7	22	Calif., Davis	4,725,310
	23	North Carolina	4,678,220
	24	Princeton	4,617,309
	25	New York	4,387,223
	26	Pennsylvania	4,357,706
	27	Northwestern	4,351,197
	28	Calif., San Diego	4,341,351
	29	Howard	4,172,076
	30	Calif., Santa Barbara	4,107,751
	31	Maryland	4,009,298
8	32	Southern California	3,999,372
	33	Chicago	3,995,869
	34	Virginia	3,951,877
	35	Florida	3,865,691
	36	Arizona	3,832,407
	37	Western Ontario	3,682,624
	38	Pittsburgh	3,656,453
	39	Michigan State	3,598,687
	40	Duke	3,574,827
	41	Kansas	3,331,246
	42	SUNY-Buffalo	3,272,571
	43	Cincinnati	3,251,141
	44	Iowa	3,204,700
	45	Hawaii	3,162,069
	46	Manitoba	3,116,055
	47	Purdue	3,065,969
	48	MIT	3,061,527
	49	Calif., Irvine	3,026,078
	50	Southern Illinois	3,006,981
	51	Temple	3,005,658
9	52	Wayne State	2,986,255
	53	Georgia	2,966,976
	54	York	2,939,472
	55	Georgetown	2,927,592
	56	Washington State	2,803,579
	57	Queen's	2,732,775
	58	Massachusetts	2,644,337
	59	Connecticut	2,640,566
	60	Johns Hopkins	2,639,652
	61	Boston	2,624,192
	62	Kentucky	2,609,478
	63	Arizona State	2,604,606
	64	Colorado	2,586,330
	65	Calif., Riverside	2,540,467
	66	Louisiana State	2,535,346
	67	Miami	2,518,170
	68	SUNY-Stony Brook	2,432,972
	69	Washington, St. Louis	2,400,440
	70	Virginia Polytechnic	2,398,304
	71	Missouri	2,381,550
	72	South Carolina	2,335,999
	73	Iowa State	2,319,190
	74	Tennessee	2,311,658
	75	Saskatchewan	2,290,273
	76	Florida State	2,289,437
	77	Oregon	2,283,658
	78	Houston	2,277,809
	79	McMaster	2,277,749
	80	Utah	2,270,723
	81	Rochester	2,234,000
	82	Syracuse	2,230,734
	83	Nebraska	2,186,535
	84	Texas A & M	2,154,345
	85	New Mexico	2,132,445
	86	Emory	2,129,263
	87	Colorado State	2,098,683
	88	Vanderbilt	2,077,293
	89	Guelph	2,068,178
	90	Oklahoma	2,044,449
	91	SUNY-Albany	2,032,581
10	92	Case Western Reserve	1,999,458
	93	Kent State	1,869,524
	94	Tulane	1,800,908
	95	Dartmouth	1,623,912
	96	Notre Dame	1,597,282
	97	Alabama	1,418,205
	98	Brown	1,345,109
	99	Rice	1,322,601
	100	Oklahoma State	1,215,313

Brigham Young figure not published.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	11,000 and over	6-	6,000-6,999
2-	10,000-10,999	7-	5,000-5,999
3-	9,000- 9,999	8-	4,000-4,999
4-	8,000- 8,999	9-	3,000-3,999
5-	7,000- 7,999	10-	2,000-2,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	19,815,835		50	Washington, St. Louis	5,251,776
	2	Calif., Berkeley	15,390,000		51	Johns Hopkins	5,213,630
	3	Calif., Los Angeles	15,359,118		52	Georgetown	5,206,080
	4	Toronto	14,544,008		53	Purdue	5,176,187
	5	Stanford	14,074,849		54	Arizona State	5,168,984
	6	Yale	13,257,483		55	Virginia Polytechnic	5,132,587
	7	Texas	12,383,338		56	Boston	5,129,471
	8	Michigan	11,972,120		57	Wayne State	5,081,663
					58	MIT	5,079,700
2	9	Columbia	10,835,424		59	York	5,017,842
	10	British Columbia	10,817,312				
	11	Cornell	10,759,683	8	60	Washington State	4,921,059
	12	Illinois	10,640,252		61	Kentucky	4,916,507
	13	Minnesota	10,370,301		62	Temple	4,874,275
	14	Wisconsin	10,332,027		63	Florida State	4,837,296
					64	Manitoba	4,685,208
3	15	Washington	9,960,798		65	Connecticut	4,620,524
	16	Ohio State	9,066,117		66	Miami	4,573,817
					67	Queen's	4,491,313
4	17	Pennsylvania State	8,954,830		68	McMaster	4,474,618
	18	Arizona	8,689,890		69	South Carolina	4,464,233
	19	North Carolina	8,667,187		70	Syracuse	4,456,597
	20	Indiana	8,591,751		71	Missouri	4,439,724
	21	Calif., Davis	8,494,284		72	SUNY-Stony Brook	4,396,000
	22	Princeton	8,426,610		73	Emory	4,395,648
	23	Alberta	8,290,541		74	Iowa State	4,384,827
	24	Rutgers	8,126,000		75	Oklahoma	4,347,050
					76	Tennessee	4,329,504
5	25	Howard	7,963,770		77	Nebraska	4,325,897
	26	Florida	7,849,185		78	Houston	4,272,870
	27	Chicago	7,761,714		79	Vanderbilt	4,240,080
	28	Pennsylvania	7,677,444		80	Oregon	4,218,436
	29	McGill	7,614,017		81	Massachusetts	4,213,154
	30	Calif., San Diego	7,462,728		82	Texas A & M	4,206,395
	31	New York	7,414,408		83	Rochester	4,180,000
	32	Virginia	7,349,275		84	Colorado	4,133,549
	33	Northwestern	7,125,438				
	34	Southern California	7,038,991	9	85	Saskatchewan	3,991,004
					86	Brown	3,946,974
6	35	Calif., Santa Barbara	6,971,188		87	Calif., Riverside	3,834,139
	36	Maryland	6,690,100		88	Utah	3,785,532
	37	Duke	6,586,445		89	SUNY-Albany	3,729,367
	38	Kansas	6,388,449		90	Case Western Reserve	3,695,860
	39	Michigan State	6,325,267		91	Colorado State	3,666,159
	40	Iowa	6,231,416		92	New Mexico	3,606,569
	41	Cincinnati	6,198,062		93	Guelph	3,545,528
	42	Western Ontario	6,058,284		94	Tulane	3,527,827
					95	Dartmouth	3,436,102
7	43	SUNY-Buffalo	5,999,561		96	Notre Dame	3,175,189
	44	Pittsburgh	5,903,771		97	Kent State	3,107,296
	45	Georgia	5,729,056		98	Rice	3,083,606
	46	Louisiana State	5,654,994				
	47	Calif., Irvine	5,654,051				
	48	Southern Illinois	5,490,688	10	99	Alabama	2,967,212
	49	Hawaii	5,253,145		100	Oklahoma State	2,617,309

Brigham Young figure not published.

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 45,000-49,999
3- 40,000-44,999
4- 35,000-39,999
5- 30,000-34,999
6- 25,000-29,999
7- 20,000-24,999
8- 15,000-19,999
9- 10,000-14,999
10- 5,000- 9,999
11- under 5,000

Gp	Rank	Institution	Value
1	1	Minnesota	140,153
	2	Washington	120,861
	3	Illinois	111,304
	4	Wisconsin	101,036
2	5	Case Western Reserve	45,936
3	6	Calif., Los Angeles	43,295
	7	Harvard	40,414
5	8	McGill	34,231
	9	Pittsburgh	31,084
6	10	Calif., Davis	29,767
	11	Calif., Berkeley	29,340
	12	Cincinnati	29,215
	13	Indiana	26,984
	14	Stanford	26,837
	15	Ohio State	25,613
	16	Kansas	25,594
	17	Wayne State	25,463
	18	Iowa	25,278
	19	Texas A & M	25,202
7	20	Southern Illinois	24,197
	21	Arizona	24,178
	22	Chicago	24,019
	23	Georgia	22,076
	24	Duke	22,033
	25	Cornell	21,888
	26	Oklahoma	21,670
	27	Rice	21,328
	28	British Columbia	21,245
	29	Florida	20,960
	30	Missouri	20,496
	31	North Carolina	20,315
8	32	Rutgers	19,949
	33	SUNY-Buffalo	19,708
	34	Connecticut	18,457
	35	MIT	18,220
	36	Rochester	18,000
	37	Iowa State	17,556
	38	Calif., San Diego	17,544
	39	South Carolina	16,142
	40	Johns Hopkins	15,544
	41	Kentucky	15,543
	42	Florida State	15,219
9	43	Columbia	14,568
	44	Emory	14,565
	45	Washington, St. Louis	14,524
	46	Pennsylvania State	13,823
	47	Tennessee	12,794
	48	Calif., Irvine	12,519
	49	Maryland	12,511
	50	Yale	12,447
	51	Arizona State	12,159
	52	Toronto	12,149
	53	Colorado State	12,028
	54	Virginia Polytechnic	11,946
	55	Manitoba	11,790
	56	Oregon	11,658
	57	Nebraska	11,650
	58	Princeton	11,250
	59	Purdue	11,221
	60	Texas	11,207
	61	SUNY-Stony Brook	11,188
	62	Michigan State	10,875
	63	Miami	10,738
	64	Alberta	10,547
10	65	Tulane	9,948
	66	New York	9,913
	67	Northwestern	9,565
	68	Colorado	9,557
	69	Western Ontario	9,518
	70	SUNY-Albany	9,482
	71	Virginia	9,412
	72	Kent State	8,888
	73	Massachusetts	8,399
	74	Utah	8,385
	75	Michigan	8,350
	76	Oklahoma State	8,318
	77	Pennsylvania	8,170
	78	York	7,863
	79	Hawaii	7,767
	80	Washington State	7,756
	81	Temple	7,392
	82	McMaster	7,379
	83	Boston	7,316
	84	Louisiana State	7,182
	85	Dartmouth	6,361
	86	Vanderbilt	5,809
	87	Saskatchewan	5,757
	88	Georgetown	5,473
	89	Brown	5,123
11	90	New Mexico	4,797
	91	Alabama	4,573
	92	Southern California	4,398
	93	Brigham Young	4,297
	94	Calif., Riverside	4,242
	95	Notre Dame	4,195
	96	Syracuse	3,825
	97	Houston	3,816
	98	Queen's	3,669
	99	Howard	3,479
	100	Calif., Santa Barbara	2,794
	101	Guelph	2,133

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 15,000 and over
2- 13,000-14,999
3- 11,000-12,999
4- 9,000-10,999
5- 7,000-8,999
6- 5,000-6,999
7- 3,000-4,999
8- under 3,000

Gp	Rank	Institution	Value
1	1	Wisconsin	27,551
	2	Illinois	17,046
2	3	Minnesota	14,895
	4	Calif., Berkeley	14,752
	5	Connecticut	13,906
3	6	Kansas	12,972
	7	Johns Hopkins	12,685
	8	Arizona State	12,125
	9	Oklahoma	11,057
4	10	Cincinnati	9,497
	11	Florida	9,088
5	12	Calif., Los Angeles	8,755
	13	McGill	8,240
	14	Pennsylvania	8,227
	15	Calif., Santa Barbara	8,090
	16	SUNY-Albany	7,753
	17	Calif., Riverside	7,583
	18	Texas A & M	7,525
	19	Washington, St. Louis	7,341
	20	Texas	7,219
	21	Toronto	7,186
	22	British Columbia	7,168
	23	Manitoba	7,076
	24	Ohio State	7,052
	25	Calif., Irvine	7,033
	26	Rochester	7,000
6	27	Purdue	6,973
	28	SUNY-Buffalo	6,476
	29	Miami	6,461
	30	Northwestern	6,353
	31	Utah	6,322
	32	Indiana	6,212
	33	Missouri	6,209
	34	Massachusetts	6,206
	35	Colorado State	6,202
	36	Georgia	6,201
	37	Pennsylvania State	6,049
	38	McMaster	6,006
	39	Kentucky	5,983
	40	Boston	5,912
	41	New York	5,843
	42	Houston	5,822
	43	Queen's	5,741
	44	Pittsburgh	5,687
	45	Harvard	5,675
	46	Calif., San Diego	5,599
	47	Oregon	5,550
	48	Rutgers	5,514
	49	Colorado	5,367
	50	Alberta	5,183
	51	South Carolina	5,072
7	52	Calif., Davis	4,987
	53	Iowa	4,975
	54	SUNY-Stony Brook	4,796
	55	Brigham Young	4,748
	56	North Carolina	4,690
	57	Case Western Reserve	4,683
	58	Saskatchewan	4,639
	59	Arizona	4,626
	60	Oklahoma State	4,607
	61	Yale	4,527
	62	Dartmouth	4,511
	63	Kent State	4,507
	64	Western Ontario	4,466
	65	Tulane	4,464
	66	Tennessee	4,396
	67	Washington	4,381
	68	Michigan	4,376
	69	Columbia	4,165
	70	Emory	3,994
	71	Southern Illinois	3,993
	72	Stanford	3,925
	73	Iowa State	3,881
	74	Washington State	3,867
	75	Nebraska	3,851
	76	Florida State	3,783
	77	Michigan State	3,780
	78	New Mexico	3,765
	79	Guelph	3,669
	80	York	3,562
	81	Georgetown	3,499
	82	Duke	3,483
	83	Hawaii	3,393
	84	Virginia Polytechnic	3,333
	85	Louisiana State	3,276
	86	Princeton	3,267
	87	Syracuse	3,217
	88	MIT	3,154
	89	Vanderbilt	3,147
	90	Wayne State	3,087
	91	Chicago	3,031
	92	Cornell	3,021
8	93	Temple	2,984
	94	Maryland	2,923
	95	Alabama	2,767
	96	Howard	2,680
	97	Notre Dame	2,579
	98	Brown	2,466
	99	Virginia	2,218
	100	Rice	1,776
	101	Southern California	1,332

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	2,200 and over	6-	1,200-1,399
2-	2,000-2,199	7-	1,000-1,199
3-	1,800-1,999	8-	800- 999
4-	1,600-1,799	9-	600- 799
5-	1,400-1,599	10-	400- 599

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	2,340,000		49	Syracuse	1,064,818
					50	Louisiana State	1,054,488
2	2	Michigan	2,148,995		51	Calif., Irvine	1,040,045
	3	Washington	2,067,032		52	Texas A & M	1,038,955
					53	Washington State	1,034,958
3	4	Stanford	1,868,954		54	Howard	1,025,253
	5	Calif., Los Angeles	1,841,468		55	Tennessee	1,023,536
	6	Wisconsin	1,831,902		56	SUNY-Stony Brook	1,011,587
					57	Alberta	1,008,281
4	7	Toronto	1,725,524		58	Case Western Reserve	1,005,683
	8	Columbia	1,692,924		59	Oklahoma	1,005,449
	9	Texas	1,662,645		60	Miami	1,000,045
	10	Illinois	1,645,866				
	11	Georgia	1,640,121	8	61	Western Ontario	983,773
	12	Yale	1,622,158		62	Florida State	980,975
	13	Calif., Berkeley	1,610,000		63	Calif., San Diego	976,188
	14	Iowa	1,601,852		64	Boston	974,070
	15	Minnesota	1,600,182		65	Hawaii	972,372
					66	Temple	958,552
5	16	Calif., Davis	1,508,326		67	McGill	953,481
	17	Duke	1,466,159		68	Vanderbilt	939,664
	18	Rutgers	1,461,145		69	Houston	938,373
	19	Princeton	1,411,756		70	SUNY-Albany	934,349
					71	Dartmouth	913,290
6	20	Arizona	1,367,676		72	MIT	911,574
	21	Northwestern	1,362,370		73	South Carolina	874,064
	22	Missouri	1,346,000		74	Emory	864,938
	23	Chicago	1,333,378		75	Wayne State	862,096
	24	Florida	1,304,800		76	McMaster	833,714
	25	Virginia	1,287,652		77	York	831,181
	26	Pennsylvania State	1,276,379		78	Colorado	827,984
	27	Southern California	1,276,000		79	Tulane	818,980
	28	Virginia Polytechnic	1,249,483		80	Saskatchewan	809,541
	29	Ohio State	1,236,282				
	30	New York	1,220,387	9	81	Oregon	781,368
	31	Kansas	1,216,649		82	Manitoba	774,919
	32	SUNY-Buffalo	1,206,814		83	Rice	759,286
	33	Iowa State	1,206,322		84	Rochester	728,000
	34	Kentucky	1,204,616		85	Massachusetts	716,446
					86	Brown	715,729
7	35	Southern Illinois	1,179,005		87	Alabama	701,943
	36	Maryland	1,151,560		88	Queen's	701,393
	37	Purdue	1,141,153		89	Colorado State	700,000
	38	Nebraska	1,106,511		90	Georgetown	692,703
	39	Arizona State	1,100,911		91	New Mexico	675,927
	40	Pennsylvania	1,100,771		92	Pittsburgh	671,924
	41	Washington, St. Louis	1,100,000		93	Notre Dame	654,198
	42	Cincinnati	1,098,119		94	Calif., Riverside	643,021
	43	Johns Hopkins	1,086,246		95	Oklahoma State	609,637
	44	Indiana	1,080,780				
	45	Calif., Santa Barbara	1,071,000				
	46	North Carolina	1,069,679	10	96	Utah	581,017
	47	Connecticut	1,067,213		97	Guelph	536,232
	48	Michigan State	1,065,647		98	Kent State	456,401

Brigham Young figure not published; figures for Cornell and British Columbia not available.

ARL STATISTICS 1980-81

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).

2. All figures should be rounded to the nearest whole number.

3. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The National Center for Education Statistics in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that in which its parent institution is located ... beyond a reasonable commuting distance from the main campus ...") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 3 of the questionnaire.

4. Questions 1-6. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.) If any of these items must be included, please provide an explanatory footnote on p. 3 of the questionnaire.

5. Question 6. If the volume count reported on line 5 includes government documents, report the subtotal of those volumes that are maintained in a separate government documents collection. Enclose the figure in curves if only an estimated count is available. If government documents are not included in your library's volume count, or if none of those reported are kept in a separate collection, enter "0" on line 6.

6. Question 7. Include duplicate subscriptions and government document serials. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

   > Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

7. Questions 13-16 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff on p. 3 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library.

8. Question 13. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

9. Questions 17-23 - Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. When special project or grant funds are included, please provide a footnote indicating the amount of such funds on p. 3 of the questionnaire. Include federal funds for work study students.

   Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.1843, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1980 - June 1981.

10. Question 22. Report net expenditures after any cost recovery. Exclude expenditures for buildings and maintenance, and for fringe benefits.

11. Questions 24-25 - Ph.D. Degrees. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not required for this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 3 of the questionnaire.

12. Question 25. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Education in collecting statistics on higher education. The official title of the form is: "Higher Education General Information Survey, Degrees and Other Formal Awards." It is designated as NCES Form 2300-2.1A. Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 3 of the questionnaire.

13. Questions 28-31 - Enrollment. Please use figures reported to the U.S. Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment and Compliance Report of Institutions of Higher Education." It is designated as NCES Form 2300-2.3A. The line and column numbers on the HEGIS form for each category are noted on the questionnaire.

14. Reporting libraries are urged to record in the footnote section any circumstances that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics.

ARL STATISTICS QUESTIONNAIRE, 1980-81

Reporting Library _____

Questionnaire Completed by (Name) _____

Phone Number _____ Date Returned to ARL _____

COLLECTIONS (See instructions 4-6)

1. Volumes held June 30, 1980 (Exclude microforms and govt. docs.) (Record figure reported last year or footnote adjusted figure) _____
2. Volumes added during year - Gross (Exclude microforms and govt. docs.) _____
3. Volumes withdrawn during year (Exclude microforms and govt. docs.) _____
4. Volumes added during year - Net (Subtract line 3 from line 2) _____
5. Volumes held June 30, 1981 (Add line 1 to line 4) _____
6. Number of volumes reported on line 5 that are government documents maintained in a separate collection (See instruction 5) _____
7. Number of current serials, including periodicals, received (See instruction 6) _____
8. Reels of microfilm held June 30, 1981 _____
9. Number of microcards held June 30, 1981 _____
10. Number of microprint sheets held June 30, 1981 _____
11. Number of microfiche sheets held June 30, 1981 _____
12. Total microform units held June 30, 1981 (Add lines 8, 9, 10, 11) _____

PERSONNEL (See instructions 7-8) (Round figures to nearest whole number)

13. Number of professional staff, FTE _____
14. Number of nonprofessional staff, FTE _____
15. Number of student assistants, FTE _____
16. Total FTE staff (Add lines 13, 14, 15) _____

ARL Statistics Questionnaire - Page 2

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.1843)
EXPENDITURES (See instructions 9-10)		
17. Books, serials and other library materials	_____	_____
18. Current serials including periodicals (See instruction 6) (Subtotal of 17)	_____	_____
19. Binding	_____	_____
20. Total library materials and binding (Add lines 17, 19)	_____	_____
21. Total salaries and wages, including student assistants' wages (omit fringe benefits)	_____	_____
22. Other operating expenditures (See instruction 10)	_____	_____
23. Total library expenditures (Add lines 20, 21, 22)	_____	_____

PH.D. DEGREES (See instructions 11-12)

24. Number of Ph.D.s awarded _____

25. Number of fields in which Ph.D.s can be awarded _____

INTERLIBRARY LOANS

26. Items loaned: Originals _____; Photocopies _____; Total _____

27. Items borrowed: Originals _____; Photocopies _____; Total _____

ENROLLMENT - FALL 1980 (See instruction 13)

28. Total full-time students (line 14, columns 13 and 14) _____

29. Total FTE part-time students (line 28, column 15) _____

30. Total full-time graduate students (line 11, columns 13 and 14) _____

31. Total FTE part-time graduate students (line 25, column 15) _____

ARL Statistics Questionnaire - Page 3

FOOTNOTES FOR ARL STATISTICS, 1980-81

(When comparing with footnotes from surveys of previous years, please note that several of these questions have been revised.)

1. Law Library statistics are included.

   ☐ Yes ☐ No ☐ We do not have a Law Library.

2. Medical Library statistics are included.

   ☐ Yes ☐ No ☐ We do not have a Medical Library.

3. Other libraries not included:

   _____

   _____

4. Figures include reports from branch campus libraries. (See instruction 3.)

   ☐ Yes ☐ No

5. If branch campus libraries are included, please specify which campuses:

   _____

   _____

6. Basis of volume count is: ☐ Physical ☐ Bibliographical

7. Count of current serials (line 7) includes government document serials.

   ☐ Yes ☐ No

8. Fringe benefits are included in expenditures for salaries and wages (line 21).

   ☐ Yes ☐ No

9. Other comments:

   _____

   _____

   _____

FOOTNOTES TO ARL STATISTICS

FOOTNOTES TO ARL STATISTICS, 1980-81

Institution	Category from Main Table	Notes
ALABAMA		Includes Health Science Library.
		Figures are as of September 30, 1981.
	(1)	Figure reflects adjusted recount of Health Sciences Library.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, St. Jean Library, and Map Library.
		Part-time enrollment figures are numbers of students, not FTE.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,150,877; (13) $1,194,107; (14) $181,473; (15) $3,526,457; (16) $6,848,058; (17) $638,080; (18) $11,012,595.
ARIZONA	(12)	Includes $30,243 from special grants.
	(13)	Does not include backfile purchases.
	(16)	Includes $167,471 from work study and special grants.
	(17)	Includes $60,790 in grant funds.
		Microcard count includes microprint sheets.
BOSTON		Includes the Theology Library.
BOSTON PUBLIC		Microcard count includes 43,965 aperture cards.
BRIGHAM YOUNG		Figures are as of August 31, 1981.
	(12-18)	Reported, but not published.

Institution	Category from Main Table	Notes
BRITISH COLUMBIA		Figures are as of March 31, 1981.
	(19, 20, 22)	Salaries of 5 nonprofessionals are paid from revenues; salaries of 2 librarians and 24 nonprofessionals are paid from grants.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,229,221; (13) N/A; (14) $234,778; (15) $3,463,999; (16) $8,074,711; (17) $1,272,232; (18) $12,810,942.
BROWN		Excludes John Carter Brown Library.
	(12, 16, 17)	Includes Title II-C funding of $19,021 for materials, $113,415 for salaries and wages, and $66,866 for other operating expenditures.
CALIF., BERKELEY		1979-80 figure revised.
CALIF., IRVINE	(16)	Includes $29,440 of work study funds.
CALIF., LOS ANGELES	(1)	1979-80 figure revised.
	(1-3)	Initial volume count in 1940's was bibliographical; subsequent counts of added volumes have been physical. Microcard count includes microfiche and microprint sheets. Full time enrollment figures exclude 1,745 interns and residents.
CALIF., RIVERSIDE	(5)	1979-80 figure revised. Graduate student enrollments are numbers of students, not FTE. Microfiche count includes microcards and microprint sheets.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
CENTER FOR RES. LIBS.	(5)	Estimated figure. Microfiche count includes microcards.

Institution	Category from Main Table	Notes
CHICAGO	(1-3)	Includes microforms.
	(4)	Basis of microform count is bibliographical, not physical.
	(22)	Includes 8 FTE staff on special grants.
CINCINNATI		Excludes Raymond Walters and Clermont.
	(1)	1979-80 figure revised. Excludes government documents maintained in separate collection (170,875) although collection is brief listed in the card catalog.
	(1-4)	Because of variant practices in departmental libraries, count is both physical and bibliographical.
COLORADO	(5)	Includes government document serials for the first time this year.
COLORADO STATE	(16)	Includes fringe benefits.
COLUMBIA		Ph.D. count excludes Ph.D.'s in education as well as other doctoral degrees. Graduate student enrollments include candidates for first professional degrees.
CONNECTICUT		Does not include branch campus libraries in Hartford, Groton, Stamford, Torrington, and Waterbury.
	(1)	1979-80 figure revised.
	(1-3)	Includes: monographs over 10 pages, annual reports, hearings, committee prints, and bound volumes of periodicals.
CORNELL		Excludes Medical College Library. Includes Annex Library storage facility and branch campus library at Geneva Experiment Station.
	(16)	Includes $218,028 in federal work study funds.

Institution	Category from Main Table	Notes
CORNELL (cont'd)	(19, 20, 22)	Includes 13 FTE professional and 17 FTE nonprofessional staff paid from grants, contracts, and special projects.
	(21)	Increase from previous year due to increased federal share for work study positions.
DARTMOUTH	(1-3)	Count is physical for monographs and bibliographical for serials; includes government documents.
	(12)	Includes $1,900 in grant funds.
	(17)	Includes $2,500 for ARL/OMS preservation grant.
DUKE	(1)	1979-80 figure revised; last year's total included some microforms.
		Count of Ph.D. subjects is number of departments rather than number of fields.
EMORY		Excludes Oxford College Library.
	(1)	1979-80 figure revised.
	(16)	Includes salaries for regional medical library not previously reported.
	(18)	Includes $114,390 in grant funds.
	(19, 20, 22)	Includes 2 professional and 2 non-professional staff funded by grants.
		Microfiche count includes microcards and microprint sheets.
FLORIDA	(20)	Includes temporary employees.
FLORIDA STATE		Excludes Research Development School Library.
	(1)	1979-80 figure revised.
	(16)	Includes fringe benefits.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes).
	(1)	1979-80 figure revised.

Institution	Category from Main Table	Notes
GEORGETOWN (cont'd)	(1-4)	Includes non-print materials.
	(17)	Library computer costs of $40,444 are not included as they are not charged to the Library's budget.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
GUELPH	(1)	Government publications have been included, as in previous reports, as cataloged items. Guelph provides complete access through its integrated online catalog to all government publications.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,499,363; (13) $635,060; (14) $45,451; (15) $1,544,814; (16) $2,449,343; (17) $204,812; (18) $4,198,969.
	(17)	Includes cost of computer operations in the amount of Can. $82,808 (maintenance of minicomputer and terminals $49,756 and charges for use of University's main computer $33,052).
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($1,956,989), building and maintenance charged to library budgets ($2,401,769), cost-recovery items ($1,103,366). Total reported expenses including these items: $25,277,959.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
HOUSTON		Figures are as of August 30, 1981.

Institution	Category from Main Table	Notes
HOWARD		Excludes some departmental and institute libraries.
		Part-time enrollments are numbers of students, not FTE.
INDIANA		Figures are reported for the Bloomington campus only. Prior to 1979-80 figures were reported in addition for the the six regional campuses and the Indianapolis campuses. System-wide figures for all campuses of the University, comparable to those reported in previous years, are: (1) 5,287,302; (2) 202,483; (3) 160,139; (4) 1,946,678; (5) 45,586; (6) 16,166; (7) 25,830; (8) 41,996; (9) 12,242; (10) 12,474; (11) 24,716; (12) $4,513,690; (13) $2,131,028; (14) $252,228; (15) $4,765,918; (16) $7,418,317; (17) $918,723; (18) $13,102,958; (19) 193; (20) 297; (21) 183; (22) 673.
	(12-18)	Includes $107,916 for salaries and $68,236 associated with Title II-C and other grants. Also includes $325,000 in private foundation grants to the Lilly Rare Books Library and the University's matching grant to the Lilly Library of $240,000 (used for materials).
	(19-22)	Includes 4 FTE professionals and 7.5 FTE nonprofessionals working on a Title II-C grant.
JOHN CRERAR		Collections data include Crerar Library only. Fiscal and staff data include all services, grant and contract operations. All data represent the latest figures available and are for the period October 1, 1979 - September 30, 1980.
	(1-4)	Data are adjusted from previous years' bibliographic count in accordance with an actual physical count. Figures have been adjusted to take into account sales, transfers, and deposits not previously deducted.
	(1-5)	Includes government documents.

Institution	Category from Main Table	Notes
JOHNS HOPKINS		Includes Peabody Conservatory Library, Welch Medical Library, School of Hygiene and Public Health Library, Applied Physics Laboratory Library, School of Advanced International Studies, Washington, D.C.
		Microcard count includes microprint sheets.
KANSAS		Includes Law Library at Lawrence, and branch School of Medicine and Regents Center campuses in Kansas City.
	(16)	Includes federal work study funds of $87,948, and $66,000 for grant funded positions.
	(18)	Includes special and grant acquisition funds totalling $169,388; and OOE special and grant funds totalling $8,474.
	(19-22)	Includes 3.5 FTE professionals, 2 FTE non-professionals, and 1 FTE student assistant that are grant funded positions.
KENT STATE		Audio-Visual Center and Self-Instruction Center included; these were not included in previous years' reports.
	(12)	Includes grants of $15,000 and $1,900.
		Microfiche count includes microcards and microprint sheets.
KENTUCKY	(19, 20, 22)	Includes 5 FTE professional and 4 FTE nonprofessional staff paid through grant funds.
LINDA HALL		Holdings are as of December 31, 1980.
LOUISIANA STATE		Includes Veterinary Medicine Library, except for interlibrary loans (6-11) and serials and binding expenditures (13, 14).
	(1)	Includes bound government documents.
	(5)	Includes Law Library's government documents serials.

Institution	Category from Main Table	Notes
McGILL		Figures are as of May 31, 1981.
	(1)	1979-80 figure revised.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,875,586; (13) $1,129,207; (14) $135,537; (15) $2,011,123; (16) 6,597,265; (17) 408,891; (18) $9,017,279.
		Microcard count includes microprint sheets.
McMASTER	(1)	1979-80 figure adjusted to include government documents.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,203,773; (13) $987,368; (14) $63,932; (15) $2,267,705; (16) $2,697,539; (17) $334,048; (18) $5,299,292.
MANITOBA	(7, 10)	Includes AV and microform materials.
	(12)	Includes $28,398 in grant funds.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,481,584; (13) $917,737; (14) $108,439; (15) $1,590,023; (16) $3, 690,344; (17) $268,325; (18) $5,548,692.
	(15)	Includes $6,584 in grant funds.
		Microfiche count includes microcards and microprint sheets.
MARYLAND		College of Library and Information Services data are included for collections and expenditures, but not for personnel.
	(16, 21)	Expenditures for federally funded work study students are not included, but these students are included in the calculation of FTE student assistants.
	(18)	Includes $119,514 of special project or grant funds.
		Microfiche count includes microcards and microprint sheets.

Institution	Category from Main Table	Notes
MASSACHUSETTS	(5)	Includes a few government document titles; most government document serials are maintained in a separate documents collection.
MIAMI	(16)	Excludes Director's salary.
	(16, 20)	Includes 6 nonprofessional staff hired for special project with University funds.
		Microfiche count includes microcards and microprint sheets.
MICHIGAN		Excludes Dearborn Campus Library and the University of Michigan, Flint Library.
	(15)	Includes $64,930 in federal funds.
	(16)	Includes $273,927 in federal funds.
		Microfiche count includes microcards and microprint sheets.
MICHIGAN STATE	(1)	1979-80 figure revised.
	(18)	Includes Title II-C and federal work study funds totalling $401,401.
		Microfilm reel count includes microfiche sheets.
MINNESOTA	(1)	1979-80 figure adjusted by 6,752 volume increase as the result of actual physical inventory taken in some library units.
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included.
		Figures are as of September 30, 1981.
	(16)	Includes fringe benefits.
NAT. LIB. OF CANADA		Figures are as of March 31, 1981.
	(1)	1979-80 figure adjusted downward from last year's reported statistics. The new figure is based on an accurate count of the monograph holdings.

Institution	Category from Main Table	Notes
NAT. LIB. OF CANADA (cont'd)	(4)	Figure is lower than actual holdings because of some unreported government documents collections.
	(5)	Includes some, but not all, government document serials.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,080,000; (13) $238,712; (14) $30,000; (15) $1,110,000; (16) 10,052,332; (17) $4,982,748; (18) $16,945,080.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical Subject Headings Section, and the Office of the Associate Director for Library Operations.
NEWBERRY	(1)	1979-80 figure revised.
NEW MEXICO		Microfiche count includes microcards.
NEW YORK	(1)	Figure adjusted from earlier reports to exclude 341,554 documents previously included.
	(13)	Does not include subset of Dental Library's $25,400 materials expenditures.
	(16)	Includes college work study grants of $130,608 and special project salaries of $50,909 which were not previously reported.
	(17)	Includes special project costs of $162,414 which were not previously reported.
	(22)	Includes special project personnel.
		Part time student enrollment does not include Continuing Education which was previously reported.

Institution	Category from Main Table	Notes
NEW YORK PUBLIC	(5)	Beginning in 1976, serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were reported. Includes current and dead titles; no separate count kept of current cataloged titles.
		Microcard count includes microprint sheets.
NEW YORK STATE	(1-3)	Includes government documents.
	(19, 20, 22)	Filled positions.
NORTH CAROLINA	(22)	2 FTE professionals and 1 FTE nonprofessional funded on federal grant.
NORTHWESTERN		Includes Dental Library.
	(1)	1979-80 figure revised.
	(12-18)	Includes project and grant funds as follows: (12) $74,627; (13) $17,896; (14) $2,980; (16) $78,243 and $199,783 of federal work study funds; (17) $132,939.
	(19-22)	Includes 6 FTE professional, 4 FTE non-professional, and 1 FTE student on special projects.
NOTRE DAME	(1)	1979-80 figure revised.
	(4)	Does not include microforms in various departmental collections. Microprint sheet count includes microcards.
OHIO STATE		Excludes regional campuses.
	(16)	Includes $14,016 in Bindery salaries.
	(19)	Includes .5 FTE employed on grant funds.
		Doctor of Musical Arts degrees included in count of Ph.D.'s awarded.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
OREGON	(5)	Estimated figure.

Institution	Category from Main Table	Notes
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College and Radnor Graduate Center. Excludes Capitol Campus at Middletown, Pennsylvania.
	(17)	Includes $210,000 partial payment on computer upgrade.
		Microfiche count includes microcards.
PITTSBURGH		Excludes 4 regional campus libraries: Bradford, Greensburg, Johnstown, and Titusville.
	(1)	1979-80 figure revised.
	(19)	Count is based upon the university's definition of professional; includes only faculty librarians and 2 assistants to Director.
PRINCETON	(1)	Revised from 1979-80 report to reflect 29,078 previously unreported volumes in Graphic Arts Collection.
	(16)	Includes $28,500 in grant funds.
	(17)	Includes grant funds.
	(19, 20, 22)	Includes 2 professionals and 8 nonprofessionals on grant funds.
QUEEN'S		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,616,830; (13) $830,660; (14) $103,828; (15) $1,720,658; (16) $3,236,426; (17) $361,979; (18) $5,319,063.
RICE	(8)	Includes material loaned through R.I.C.E.

Institution	Category from Main Table	Notes
RUTGERS		Figures are for the entire system which includes two law libraries, services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
		Part-time enrollment figures are estimates.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Expenditures reported in Canadian dollars were: (12) $1,683,525; (13) $958,739; (14) $60,966; (15) $1,744,491; (16) $2,712,370; (17) $269,684; (18) $4,726,545.
		Microfiche count includes microcards and microprint sheets.
SMITHSONIAN		Figures are as of September 30, 1981.
		Includes Smithsonian Astrophysical Observatory in Cambridge, Mass. and Mt. Hopkins, Arizona; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Collection of Fine Arts, and National Portrait Gallery.
	(16)	Includes fringe benefits.
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library.
		Ph.D. figures include doctorates other than Ph.D.'s.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies, Papers of Ulysses S. Grant; Instructional Development, Research and Evaluation Faculty of Learning

Institution	Category from Main Table	Notes
SOUTHERN ILLINOIS (cont'd)		Resources Service; School of Medicine Library (Springfield). Includes the School of Law Library, which is not administratively part of Library Affairs.
STANFORD	(16)	Includes $229,651 of special funds.
	(17)	Includes $173,866 of special funds.
		Microfiche count includes microcards and microprint sheets.
SUNY, ALBANY		Includes the Graduate Library of Public Policy (formerly Hawley Library) on East campus.
	(1, 2, 3)	Includes bibliographic volumes of unbound periodicals and volumes brief-listed in the main card catalog which were not counted in previous reports.
	(1)	Includes New York State documents, but not Federal Government documents.
	(16)	Excludes federal work study allocation.
SUNY, BUFFALO		Figures are as of March 31, 1981.
	(1)	1979-80 figure revised.
SUNY, STONY BROOK		Excludes the Library of the Stony Brook Institute for the Advanced Study of World Religions, housed in the Main Library Building but not officially part of the University.
		Figures are as of March 31, 1981.
SYRACUSE		Excludes Utica College.
TEMPLE		Excludes Instructional Materials; Journalism, Health, Physical Education, Recreation, and Dance Libraries; and other departmental collections.
	(12)	Includes $61,349 in grant and endowment funds.
	(16)	Includes $35,494 in grant and endowment funds and $86,474 in work study funds.

Institution	Category from Main Table	Notes
TEMPLE (cont'd)	(17)	Includes $56,328 in grant and endowment funds.
	(19, 20, 22)	Includes 3 FTE professional and 1 FTE nonprofessional positions paid from grant funds.
TENNESSEE	(19-22)	Includes one professional, one nonprofessional, and 5.5 student assistants on special projects and grants.
		Microfiche count includes microprint sheets.
TEXAS		Figures are as of August 31, 1981 and include the General Libraries, Law Library, and the Humanities Research Center.
	(1)	1979-80 figure revised.
	(5)	Estimated figure.
	(16)	Includes Title II-C and federal work study funds.
	(22)	Includes staff hired on grant funds.
TEXAS A & M		Excludes Medical Science Library which was included in previous reports.
	(1-5)	Holdings are as of August 31, 1981.
	(1, 5)	Includes Medical Library holdings up to, but not since, September 1, 1980.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(2)	Includes 28,125 volumes in University Archives, not previously counted.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $4,257,809; (13) $2,043,538; (14) $213,105; (15)$4,470,914; (16) $11,332,234; (17) $1,421,320; (18) $17,224,468.

Institution	Category from Main Table	Notes
TULANE		Includes Delta Primate Center in Covington, La. Excludes the Business Administration Library.
	(8, 11)	Totals include Medical Library loans not broken down in subtotals.
		Microfiche count includes microcards and microprint sheets.
UTAH	(1)	Estimated figure; physical count of collection currently being made to verify holdings.
VANDERBILT	(6-11)	Excludes Law and Medical libraries.
	(12)	Includes $56,000 for video tapes not included in collections count.
	(18)	Includes $377,104 of special project and grant funds.
		Microcards included in count of microprint sheets.
VIRGINIA	(1)	Figure reported last year and in earlier years included uncataloged bound government documents (65,506 volumes in 1979-80), bound newspapers (1,301), and an uncataloged browsing collection (1,829). In this year's report these volumes are excluded for the first time.
VIRGINIA POLY.	(21)	Estimated figure, calculated from expenditures.
		Microcard count includes microprint sheets.
WASHINGTON	(1)	1979-80 figure revised.
		Microcard count includes microprint sheets.
WASHINGTON STATE	(19)	Includes 3 FTE for Instructional Media Services and .1 FTE grant appointment.
	(20)	Includes 15.25 FTE for Instructional Media Services and .5 FTE grant appointment.
	(21)	Includes 9.22 FTE for Instructional Media Services and 17.676 FTE work study students.

Institution	Category from Main Table	Notes
WASHINGTON, ST. LOUIS	(5)	Includes those government document serials that are fully cataloged.
	(13)	Estimated figure.
WAYNE STATE	(15)	Includes $20,391 of special project or grant funds.
	(16)	Includes $350,759 of special project or grant funds.
	(17)	Includes $336,390 of special project or grant funds.
	(19-22)	Includes FTE staff on special projects or grants: 7 professional, 5 non-professional, 2 student assistants.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1)	1979-80 figure revised.
	(1-4)	Holdings are as of April 30, 1981.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,479,220; (13) $1,165,082; (14) $108,275; (15) $2,587,495; (16) $4,361,331; (17) $226,000; (18) $7,174,826.
		Microfiche count includes some microprint sheets.
WISCONSIN	(1)	Map Library included for the first time. This figure is adjusted by 313,990 to include it.
	(16)	Includes $35,648 of federal grant and work study funds.
	(21)	5 FTE are paid by federal grants and work study.
YALE	(16)	Includes $358,800 in grant funds.
	(17)	Includes $123,200 in grant funds.

Institution	Category from Main Table	Notes
YALE (cont'd)	(18)	Total expenditures exclude fringe benefits $1,155,101; utility costs $1,043,245; buildings and grounds maintenance $1,033,778; and central university assessments $492,294. The total library expenditures were $16,981,901.
	(22)	Includes 30 positions on special project grants.
YORK		Includes Glendon campus.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,720,560; (13) $984,368; (14) $87,525; (15) $1,808,085; (16) $3,481,217; (17) $653,329; (18) $5,942,631.
		Statistical information on enrollment is in fiscal full-time equivalents.
		Microfiche count includes microcards and microprint sheets.

ARL STATISTICAL COMPILATIONS

1. ARL Statistics.

Published annually. Formerly Academic Library Statistics; title changed with 1974-75 edition.

a. 1963-64 to date.

Current issues available from the Association. Price: $10.00 per issue (ARL members, $8.00). When out-of-print, this publication may be ordered from:

Eric Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

b. 1919-20 to 1962-63.

Compiled by Princeton University Library and available from:

University Microfilms International
300 North Zeeb Road
Ann Arbor, Michigan 48106

1) 1944-45 to 1962-63. Special Film No. S-338.

Published as "Princeton University Library Statistics."

2) 1919-20 to 1943-44. AG 1-OP30634.

Originally published in 1947 under title: College and University Library Statistics.

2. Cumulated ARL University Library Statistics, 1962-63 through 1978-79. 1981.

Compiled by Kendon Stubbs and David Buxton for the Committee on ARL Statistics. Includes ARL annual statistics and salary data, plus data on university enrollments, expenditures, federal support, and Ph.D.'s awarded from non-ARL sources and not included in the printed ARL Statistics.

a. Book format. Available from the Association. Price: $15.00 (ARL members, $10.00).

b. 1600 b.p.i., 9-track magnetic tape. Suitable for use with SPSS, BMDP, SAS, and other statistical software. Price: $40.00 (with documentation).

Order from: Kendon L. Stubbs
Alderman Library
University of Virginia
Charlottesville, Virginia 22901

3. The ARL Library Index and Quantitative Relationships in the ARL. 1981.

A detailed description of the index developed as a summary indicator of relative ARL library size, prepared by Kendon Stubbs for the Committee on ARL Statistics. Available from the Association. Price: $5.00 (ARL members, $2.50).

4. ARL Annual Salary Survey.

Published annually since 1967-68. Provides data on beginning and median professional salaries, as well as numbers and average salaries for positions in ARL university libraries and distribution of these positions by sex and minority group, and by location, size, and type of institution.

Current issues available from the Association. Price: $10.00 per issue (ARL members, $8.00). When out-of-print, this publication may be ordered from:

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ERRATA REPORTED AFTER PUBLICATION OF ARL STATISTICS, 1980-81

Page 15 - Stanford (code no. 79)
Column 16 - $ 8,627,615
Column 17 - $ 2,136,498
Column 18 - $15,087,740

Page 14 - Toronto (code no. 88)
Column 1 - 4,623,880
Column 3 - 175,570

Page 26 - York
Total Full-time Enrollment - 19,549
Full-time Graduate Enrollment - 4,063

Page 67 - Footnotes

Stanford	(16)	Includes $235,180 of special funds.

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